Undergraduate and Graduate Programs
2013-2014

Bilkent University

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While every effort is made to ensure the accuracy of the information available at the time this catalog is prepared for publication, the University reserves the right to make changes at any time without prior notice.

The information in this catalog is current as of December 2013. For the up-to-date version, please refer to the online catalog at http://catalog.bilkent.edu.tr/current, which is updated daily. Not every course listed in this catalog is offered this year.

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General Catalog, Volume XVI, 2013-2014
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<td>21 - 29 May 2014</td>
<td>Final examinations</td>
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<td>2 June 2014</td>
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| 8 August 2014      | Grade submission deadline (17:30), announcement (19:00) }
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<td>COPE-2 examination (10:00)</td>
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<td>Tuition due for all continuing students</td>
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<td>9 September 2013</td>
<td>COPE-2 examination results announced</td>
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### Autumn Semester

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<tr>
<td>12 September 2013</td>
<td>English Preparatory Program Period 1 begins (08:50)</td>
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<tr>
<td>14 October 2013</td>
<td>No classes</td>
</tr>
<tr>
<td>15 - 18 October 2013</td>
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</tr>
<tr>
<td>21 October 2013</td>
<td>English Preparatory Program Period 2 begins (08:50)</td>
</tr>
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<td>26 October 2013</td>
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<td>29 October 2013</td>
<td>Republic Day (Holiday)</td>
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<tr>
<td>22 November 2013</td>
<td>English Preparatory Program Period 3 begins (08:50)</td>
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<td>23 December 2013</td>
<td>English Preparatory Program Period 4 begins (08:50)</td>
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<td>20 January 2014</td>
<td>Last day of Fall semester classes</td>
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<td>3 February 2014</td>
<td>English Preparatory Program Period 5 begins (08:50)</td>
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<td>3 March 2014</td>
<td>English Preparatory Program Period 6 begins (08:50)</td>
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<td>31 March 2014</td>
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<td>2 June 2014</td>
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<td>2 September 2014</td>
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**HISTORICAL BACKGROUND**

Bilkent University was founded on October 20, 1984 by İhsan Doğramacı (1915 - 2010) through the joint resolution of the İhsan Doğramacı Education Foundation, the İhsan Doğramacı Science and Research Foundation, and the İhsan Doğramacı Health Foundation. The aim was to create a center of excellence in higher education and research. The name "Bilkent" exemplifies the founder's aim, since it is an acronym of *bilim kenti*, Turkish for "city of science and knowledge." The university is located in Turkey's capital city of Ankara.

The founder, himself an academic, had earlier contributed to the establishment of numerous public institutions of higher learning and served as rector of Ankara University, as chairman of the Board of Trustees of Middle East Technical University and as founder and first rector of Hacettepe University. It had long been his objective to establish a private, non-profit university distinguished by its high quality education and research. During the time he spent at Harvard and Washington universities in the United States he had observed the advantages of independently endowed non-profit research universities that serve the public through higher education. With these in mind he advocated for decades for the Turkish legal system to allow such institutions, and when this dream finally materialized, he established Bilkent University along the same lines.

Preparations for Bilkent University had begun as early as 1967, with the purchase of a large tract of land to the west of Ankara. In the late 1970s and early 1980s the above-mentioned foundations began construction of the buildings which now house administrative offices, the Faculty of Engineering, and the library. Bilkent University Library is now the most extensive academic library in the country, visited by 860,000 researchers and students every year. Construction of residences for academic staff, cafeterias, student dormitories, the Student Union building, and various academic buildings followed in rapid succession.

Bilkent University admitted its first students in 1986. That year there were 386 undergraduate and graduate students. Currently there are over 13,000 students in nine faculties, two four-year applied schools, three two-year vocational schools, including the School of English Language, and three graduate schools. Among them are international students from 58 countries. Around 40% of the student body benefit from a variety of scholarships.

From the outset, the design of the university structure provided for student union representatives to be voting members of the administrative committees of various schools, as well as of the University Senate. The practice of student evaluation of courses and instructors, at the time not a common practice in Turkey, was instituted.

In an effort to promote the enrichment of teaching and research programs, Bilkent University has entered into collaborative projects and exchange programs with many universities; the complete list being provided at: [http://exchange.bilkent.edu.tr/exchange_partners.html](http://exchange.bilkent.edu.tr/exchange_partners.html)

To meet the expanding needs of the university, construction has continued throughout the years since the admission of the first students. Buildings and facilities today include the faculties and the departments, research centers, modern classrooms, state-of-the-art science and engineering laboratories, art studios, the Computer Center, the Health Center, gymnasiums, dormitories, faculty housing, cafeterias and restaurants, the Bilkent Concert Hall for Bilkent Symphony Orchestra, the Odeon outdoor auditorium which hosts 4,000 people, an elementary school, a secondary school, a preschool and nursery.

The faculty is comprised of academic staff from 40 different countries. Most of them were working in prominent universities in North America and Europe when they received offers from Bilkent University. According to *ISI Citation Indexes*, Bilkent ranks high among universities in Turkey in the number of published papers per faculty member.

Bilkent University ranked 39th in *Times Higher Education 100 Under 50 University Rankings*, 28th in *Times Higher Education Asia University Rankings*, and 98th in *Times Higher Education Top 100 Universities for Engineering and Technology* (2013).
With world-renowned scholars among its faculty and top-notch facilities throughout its campus, Bilkent continues to attract many of Turkey's brightest students and is proud of its 33,000 alumni pursuing successful careers in five continents.

MISSION

Bilkent University was founded to provide an environment for learning and intellectual growth encompassing the sciences, technology, humanities and the arts, to serve human welfare and foster peace on earth. Education at Bilkent is not simply a means to obtain a vocation, a career. Instead, it endeavors to nurture students in the way of thinking and of learning to learn. With its diverse educational programs, scientific and scholarly research endeavors, and artistic and cultural activities, Bilkent University aims to help students/individuals develop themselves as critical, analytical and independent thinkers and life-long learners, so that they may become the competent, creative, broad-minded, ethical and socially responsible leaders of tomorrow, who will contribute to the advancement of humanity.

The educational philosophy rests on the premise that those who produce new knowledge also have the best potential to impart it. Scholarly research at Bilkent extends across a wide spectrum. From nanoscience and nanotechnology to political science, from electronics to economics, from fine arts to management and industrial engineering, from philosophy to computer engineering, and in many other areas of science, letters and the performing arts, our academic staff and resources provide a uniquely integrated environment.

NON-DISCRIMINATION STATEMENT

Bilkent University hires academic and administrative staff and admits students without regard to gender identity, race, color, age, national or ethnic origin or sexual orientation, to all the rights, privileges, programs, and activities generally accorded or made available to staff and students at the university. It does not discriminate on the basis of gender identity, race, color, age, national or ethnic origin in administration of its educational policies, admissions policies, scholarship and loan programs, or athletic and other university-administered programs.

DEGREE PROGRAMS

Academic Year

Each academic year consists of two 16-week semesters, Fall and Spring, including the final examination period. In addition, an eight-week summer semester is offered each year. The academic calendar for 2013-2014 is given at the beginning of this catalog.

Undergraduate Programs

The bachelor's degree is awarded to students who successfully complete an eight-semester course of study (approximately 120 credit units or at least 240 ECTS).

Students must fulfill all the degree requirements determined by their departments; at graduation their cumulative grade point average must be 2.00 or higher on a scale of 4.00.

The undergraduate programs are organized in departments within nine faculties, two schools and three vocational schools offering two-year programs. These faculties and schools are as follows:

- Faculty of Art, Design, and Architecture
- Faculty of Business Administration
- Faculty of Economics, Administrative, and Social Sciences
- Faculty of Education
- Faculty of Engineering
Study in the vocational schools leads to an Associate of Arts or Associate of Science vocational degree.

Graduate Schools
Students who have obtained a B.A. or B.S., an M.A. or M.S., or an equivalent degree from an accredited university are eligible to commence studies in the master or doctoral programs.

Graduate programs are administered through the:

- Graduate School of Economics and Social Sciences
- Graduate School of Education
- Graduate School of Engineering and Science

Each graduate school coordinates the curricula for its respective programs. Information on the graduate programs is provided in this catalog under the headings of the related departments.

ADMISSION, FEES, AND ACADEMIC REQUIREMENTS

ADMISSION, TRANSFER STUDENTS, AND REGISTRATION

Language Proficiency
English is the language of teaching at Bilkent University. Applicants are required to provide proof of their proficiency in English. Students whose level of English is insufficient to follow courses are required to enroll in the School of English Language. Those accepted to the Translation and Interpretation department must take, in addition, a Proficiency Examination in French, and those whose level of French is insufficient are required to follow the language program in the Basic French Section of the School of Applied Languages.

Undergraduate Admissions
To begin undergraduate studies at Bilkent, all Turkish citizens must take the entrance examinations YGS or YGS and LYS, administered by the national Student Selection and Placement Center (ÖSYM). Applicants to the School of Applied Languages and the School of Tourism and Hotel Management take the YGS only. Applicants to the Graphic Design, Fine Arts, and Music and Performing Arts departments must pass the YGS examination. Admission is then granted on the basis of aptitude tests administered by the respective faculty in August. Applicants to all other departments take YGS and LYS. Based on the results of these exams, ÖSYM places students according to their preferences.
All international students who want to apply to Bilkent University for an undergraduate program have to go through an admission procedure. Various national exams and diplomas are used in evaluating the candidates.

In absence of these documents, the high school graduation score can also be evaluated for admission. The high school diploma and transcript along with an explanation of the high school's grading system will be needed.

Bilkent University admission requirements can be found at
http://bilkent.edu.tr/bilkent/academic/international/apply.html

An online application form can be found at: https://stars.bilkent.edu.tr/intapp

Graduate Admissions
The following are some of the general graduate admission requirements for all departments:

- All Turkish applicants are required to take the ALES (Akademik Personel ve Lisansüstü Eğitimi Giriş Sınavı - Academic Personnel and Postgraduate Education Entrance Exam) given by ÖSYM every year.
- Submission of GRE (Graduate Record Examination) or GMAT (Graduate Management Admission Test) scores is required of international applicants and may be required for domestic applicants in some programs.
- Fluency in written and oral English.

In addition, each department establishes its own criteria for admission; departmental listings include more detailed information. Applications are accepted via the internet at
https://stars.bilkent.edu.tr/gradapp

Transfer Students
Applicants may transfer to Bilkent University from an accredited university under the following conditions:

- Transfer applications submitted to the Registrar's Office must be completed by July. Each department individually determines the number of transfer students it will accept.
- Credits earned at another university are taken into consideration when determining a transfer student's requirements for graduation from Bilkent. However, in order to graduate from Bilkent, the student must have completed at least his/her final two semesters at Bilkent.

As English is the language of teaching at Bilkent University, applicants are required to provide proof of their proficiency in English. Students whose level of English is insufficient are required to enroll in the School of English Language.

Application forms and the list of required documents can be obtained either from the Registrar's Office or through the Internet at http://bilkent.edu.tr/bilkent/admission/transfer.html

Exchange Programs
Bilkent University has exchange programs with several major universities in Europe and around the world. The Student Exchange Program gives Turkish students the opportunity to study abroad while experiencing a different culture. It also exposes visiting students to the culture, art, and history of Turkey.

The principle of reciprocity inherent in the exchange programs makes it possible to send Bilkent University students to the partner universities provided that students from those universities come to Bilkent. Program participants pay the regular tuition fees to their home institution for the semester,
and are responsible for additional travel, housing, food, and incidental costs as well as insurance expenses and other minor fees while at the host university. A number of outgoing Erasmus students are granted a monthly stipend from EU funds. Detailed information about Erasmus and other exchange programs may be found at exchange.bilkent.edu.tr

**Semester Registration**

Students are required to register for courses at the beginning of each semester within the time limits announced by the University. Tuition must be paid prior to registration by the deadline announced by the University.

**FEES**

**Fees and Expenses**

Fees and expenses for the 2013-2014 academic year are as follows:

**Tuition:**

Turkish citizens 22,250 TL (8% VAT included)  
International Students 13,950 USD (8% VAT included)

Tuition fees are payable in two installments, before the registration dates of the fall and spring semesters. All fees are subject to adjustment each year according to changes in the cost of living.

**Campus Housing:**

There are Quadruple, Triple, Double, Single and Special (single room with private bath and shared kitchen) rooms available within the dormitories each having different rates. More information about the accommodation alternatives, application process, and prices can be found at http://bilkent.edu.tr/dormitory

**GRADING AND GRADE POINT AVERAGE**

**Academic Advisor**

At Bilkent University each student is assigned to an academic advisor. The advisor offers counseling services to the student on academic matters, takes an interest in the student’s selection of courses and academic progress, and may assist him/her towards satisfactory job placement.

**Course Load**

For each associate and undergraduate program, there exists a semester "normal course load interval" defined by the relevant department and approved by the Faculty or School Board. The normal course load interval consists of a lower and an upper limit. Upon recommendation of the academic advisor and with the approval of the department chair, the maximum course load of a student in one semester can be at most two more courses over the upper limit of the normal course load of the program. More information can be found in Article 4.2 of the "Academic Regulations for Undergraduate and Associate Degree Programs".

**Attendance**

Students must attend all lecture, laboratory, and practical sessions, take all examinations, and participate in any activities that the teaching staff may consider appropriate.

**Examinations and Assessment**

Apart from work conducted throughout the semester, students are usually asked to take a final examination and at least one midterm examination for a course. If a staff member considers it appropriate, practical laboratory work or other such assignments may be assessed as midterm examinations or as a final examination.
Grades are finalized when they are announced via the internet on the date specified in the Academic Calendar. Semester grades for practical studies and other non-lecture courses are determined by an evaluation of the student’s overall work and performance throughout the semester.

**Grades**

Bilkent University’s official grading system uses letter grades with pluses and minuses. Passing grades range from A+ to D; F, FX, and FZ are failing. The quality-point equivalents of the grades are:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Quality Point</th>
</tr>
</thead>
<tbody>
<tr>
<td>A+</td>
<td>4.00</td>
</tr>
<tr>
<td>A</td>
<td>4.00</td>
</tr>
<tr>
<td>A-</td>
<td>3.70</td>
</tr>
<tr>
<td>B+</td>
<td>3.30</td>
</tr>
<tr>
<td>B</td>
<td>3.00</td>
</tr>
<tr>
<td>B-</td>
<td>2.70</td>
</tr>
<tr>
<td>C+</td>
<td>2.30</td>
</tr>
<tr>
<td>C</td>
<td>2.00</td>
</tr>
<tr>
<td>C-</td>
<td>1.70</td>
</tr>
<tr>
<td>D+</td>
<td>1.30</td>
</tr>
<tr>
<td>D</td>
<td>1.00</td>
</tr>
<tr>
<td>F</td>
<td>0.00</td>
</tr>
<tr>
<td>FX</td>
<td>0.00</td>
</tr>
<tr>
<td>FZ</td>
<td>0.00</td>
</tr>
</tbody>
</table>

Other grades used are S (Satisfactory), U (Unsatisfactory), I (Incomplete), P (In Progress), T (Transfer), and W (Withdraw). These grades do not have quality-point equivalents.

- **S**: accorded to students who are successful in non-credit courses.
- **U**: accorded to students who are unsuccessful in non-credit courses.
- **I**: accorded to students who, although otherwise successful, have failed to complete the required assignments for a course due to illness or some other valid reason. Proof of illness or other reason for non-completion must be submitted to the department chair within three days of the date of the final exam. A student receiving an incomplete grade for any course must make up for the deficiencies within 15 days after the final exam in order to obtain a grade. Otherwise, the grade I automatically becomes FX. At the discretion of the department chair, the period specified above may be extended until the beginning of the following semester.
- **P**: progress.
- **T**: reflects approved transferred courses from other universities or from an exchange program. A student with a grade of T is exempted from an equivalent number of credits on the condition that the courses are accepted by the department on the recommendation of the department chair and with the approval of the board of the faculty/school. This grade may provide an exemption for a particular course at the program.
- **W**: student has withdrawn from the course before the end of the semester.

A student with extraordinary performance in a course may be granted an A+ grade. However, the number of A+ grades in a given course is limited based on class size: If the class size is less than 25 students, no A+ grades may be given; if the class size is between 25 and 74 students, only one A+ grade may be given; if the class size is between 75 and 124 students, two A+ grades may be given; if the class size is between 125 and 174 students, three A+ grades may be given; if the class size is between 175 and 225 students, four A+ grades may be given; if the class size is more than 225 students, five A+ grades may be given. (The letter grade A+ was instituted beginning with the 2010-2011 academic year.)

An undergraduate student who receives a grade of C or higher in a course (or S in a non-credit course) is considered to have satisfactorily completed that course.

A student who receives a grade of C-, D+, or D in a course can only be considered to have completed that course if his/her Cumulative Grade Point Average (CGPA) is 2.00 or higher.

A student receiving either F, FX, FZ or U in a course is considered to be unsuccessful in that course. See Articles 2.8 and 2.9 of the "Regulations Related to Teaching, Examinations and Assessment".
A graduate student is considered to have satisfactorily completed a course when he/she receives a grade of C or higher in an M.A or M.S. program, and a B or higher in a Ph.D. program. A graduate student receiving any other grade (except for S, T, P, or I) is considered to have been unsuccessful in completing that course.

Grade Point Average (GPA) and Cumulative Grade Point Average (CGPA)

A student's academic performance is determined at the end of each semester by computing an average of the grades he/she has received during that semester. For each course, the grade point equivalent of the letter grade received by the student is multiplied by the credit units for that course; the sum of these products is then divided by the total credit units taken in that semester to yield the Grade Point Average (GPA) for that semester. The Cumulative Grade Point Average (CGPA) is calculated by multiplying the grade point equivalent of the letter grade by the credit units for each course and then dividing the total sum by the total credit units taken in the program.

ACADEMIC STANDING

(applicable to undergraduate students only)

Please see Article 2.8 of the "Regulations Related to Teaching, Examinations and Assessment".

Honor and High Honor

Students achieving distinction by obtaining a semester GPA of 3.00 to 3.49 while carrying a course load no less than one course below the lower limit of the normal course load and having a CGPA of 2.00 or higher are designated "Honor" students on the transcript for that semester. Those achieving a GPA of 3.50 or above under the same conditions are designated "High Honor" students.

Satisfactory

Students maintaining a CGPA of 2.00 or higher at the end of a semester are considered to have "Satisfactory" academic standing.

Probation

Students having a CGPA of 1.80 to 1.99 at the end of a semester are placed on academic "Probation." Students on probation are required to retake courses of their choice from among the courses in which they previously received a grade of C-, D+, D, F, FX, FZ, or U.

Unsatisfactory

A student having a CGPA of below 1.80 at the end of a semester is considered to have an "Unsatisfactory" academic standing. These students are required to retake courses of their choice from among the courses in which they previously received a grade of C-, D+, D, F, FX, FZ or U.

Article 2.9 and its clauses of the "Regulations Related to Teaching, Examinations and Assessment" are applicable to students who are considered to have a "Probation" and "Unsatisfactory" academic standing such as:

During course registrations at the beginning of each semester, all courses not taken by a student in previous semesters are considered to be "new courses" for that student.

Students on probation are required to take courses in which they received any of the grades F, FX, FZ, U, and W in previous semesters. They can also register for new courses with a maximum total number of credit hours that does not exceed 60% of the Nominal Credit Load. Such students can retake courses that they will select among those courses in which they received C-, D+, or D for the purpose of improving their CGPA. If a student on probation is registering for courses in the second semester of the curriculum of a program, he/she may register for new courses with a maximum total number of credit hours that does not exceed 85% of the Nominal Credit Load.

Unsatisfactory students can not register for any new courses except for non-credit courses. Such students must retake courses for which they have received F, FX, FZ, U or W grades, and are also
expected to retake any of the courses they wish for which they have previously received C, D+, or D, for the purpose of improving their CGPA. If an Unsatisfactory student is registering for courses in the second semester of the curriculum of a program, he/she may register for new courses with a maximum total number of credit hours that does not exceed 70% of the Nominal Credit Load.

**Repeating a Course**

Students receiving a grade of F, FX, FZ, W or U in a course must repeat that course within two semesters. Students receiving a grade below a C in ENG 101 or ELS 104, or an F, FX in ENG 102 must repeat the course the next time it is offered. To improve their CGPA, students with an academic standing of "Satisfactory" may elect to repeat any course previously taken in which they received a grade of C- or lower within two semesters.

When a course is repeated, the new letter grade replaces the previous letter grade in the CGPA calculation. If a course to be repeated is an elective course or has been discontinued, an equivalent course approved by the department may be taken; in this case, only the replacing course is included in the CGPA calculation. All grades, whether included in the CGPA calculation or not, will appear on the transcript.

**Duration of Study**

The normal period for completion of undergraduate studies at Bilkent University is four academic years. Students in four-year programs must complete the requirements of their programs within at most seven academic years (excluding studies in the School of English Language). Students who fail to graduate within that period or who will be unable to qualify for such graduation are considered to be extended-study students. Students in two-year vocational schools must complete the requirements of their programs within four academic years (excluding studies in the School of English Language). Students who fail to graduate within that period or who will be unable to qualify for such graduation are considered to be extended-study students.

**DIPLOMAS AND AWARDS**

The bachelor's degree is awarded to students completing an eight-semester course of study which complies with the Section "Course Programs" of this catalog. To be eligible for a bachelor's degree, students must have a cumulative GPA of 2.00 or higher on completion of all the degree requirements. The diploma indicates the department from which the student has graduated.

Students transferring to Bilkent University from another institution of higher education must study at Bilkent University for at least their final three semesters to be eligible for graduation. Additionally, at least 50% of the courses listed in the curriculum must be taken and successfully completed at Bilkent University.

The vocational schools award associate degrees upon the completion of their requirements.

For the criteria regarding graduate degrees, please refer to the graduate programs listed in this catalog under the respective departments.

**LEAVE AND WITHDRAWAL**

**Leave of Absence**

Students may be granted permission to leave the University temporarily. Applications detailing valid and reasonable grounds for request of such permission are made to the Registrar's Office. If a decision to grant leave is taken by the Executive Board of the related Faculty or School, notice is given to the Registrar's Office. Leave may not exceed two consecutive semesters at a time, or a total of four semesters for a student's entire study period. Periods that elapse during the course of such leave are not counted as part of the study period. Applications for leave should be submitted in
writing at the beginning of the semester. Applications for leave for health reasons must be properly authenticated by medical certificates.

**Withdrawal from the University**

Students may withdraw from the University by applying to the Registrar’s Office.
FACILITIES and SERVICES

COMPUTER CENTER

Seyit Koçberber, Ph.D., Director

The Bilkent Computer Center (BCC) provides a variety of computing resources and services to meet the administrative, educational and research computing requirements in the university community. These services include providing computational, networking, and inter networking equipment, their hardware and software maintenance. Additionally, BCC develops in-house application software for the university itself including the academic information system, student information system and others.

Hardware Resources

Workstation and PC Laboratories

There are approximately 4,500 personal computers distributed in offices and laboratories throughout the campus; all connected to the campus network. BCC maintains 14 general purpose computer labs, populated with around 600 computers in total, for student and staff use. All users have access to laser printers and to the Internet. In addition to the BCC labs, many departments, schools and institutes maintain their individual educational and research labs.

Networking Capabilities

The campus network is built on a Gigabit Ethernet backbone. This star topology backbone connects all the faculties and buildings to the central switch via fiber-optic cables. Wireless network access points are scattered around the campus providing hot spots for mobile users.

All students and faculty are authorized to have accounts for their e-mail and access to the network and lab resources.

Dorm Net

Bilkent University's networking facilities are extended to the dormitories as well. All campus dormitory rooms are wired for the Ethernet and students living in the dormitories can connect their own computers to the campus and the Internet.

Software Resources

BCC provides and maintains a wide variety of scientific tools at the users’ disposal. These include statistical, mathematical, simulation libraries and packages together with various VLSI and graphics design tools and imaging tools. All modern and classical programming languages and development tools are available in various hardware platforms. State-of-the-art word processors, spreadsheets, database application software and presentation graphics software are available in most of the labs.

Some software developed in-house are also available to faculty, students and staff. The most widely used ones being AIRS (Academic Information Review System), SRS (Student Review System), and DAIS (Department Academic Information System). These are the most important tools to help the faculty and students in planning their course loads and academic preferences. ORS (Online Registration System) enables students to see and register to offered courses.
UNIVERSITY LIBRARY

David E. Thornton, Ph.D., Library Director

Ebru Kaya, Associate Director

Bilkent University Library is a lending and research library where open stacks permit free access to the entire collection, except the rare book collections. The main library, housed in its own four-storey building at the center of the Main Campus, is open from 8:30 to 23:30 weekdays; from 9:00 to 23:30 weekends. The East Campus branch library is open from 8:30 (weekends from 9:00) to 17:00. Summer hours are announced.

Bilkent Library was the first Turkish university library to offer its readers automated services through an integrated computer system. It provides the use of an online public access catalog to all readers with access to computer terminals both in the libraries and elsewhere on campus as well as to researchers, anywhere in the world, with access to the internet. There are also 32 computers with internet access in the Reference and Current Periodical Rooms for the purpose of searching e-resources and browsing the internet. Circulation of the collection is also automated. Wireless Internet access is available in both libraries.

The collection contains over one million items. The book collection, of over 450,000 volumes, increases by approximately 20,000 volumes annually. The library subscribes to 1,315 print journals from the USA and Europe and provides electronic access to over 207,685. Over $3 million is spent each year on databases, books, journals and other resources, including video and audio cassettes, DVDs and VCDs, maps, microforms, CD-ROMs, music scores and sound recordings. The library makes over 150 databases available on-line, which provide access to both citations and the fulltexts of journal articles, conference proceedings and papers and research material. Working papers and technical reports are received from leading research centers in Europe, the USA and Japan.

The Turkish Plastic Arts Archive makes available a file of over 50,000 newspaper clippings, magazine articles and exhibition materials (invitations, posters, catalogs). The collection has been catalogued and is accessible on the Internet.

Bilkent University Library has been designated by the Library of Congress to receive U.S. Government documents and makes them available in the Official Publications Room. The Bilkent University European Union Information Centre opened in 2001 with the status of a full EUI serving as a depository for European Commission publications and World Bank regional publications.

Materials of special interest to students include the "easy reading" section. The newspaper collection includes leading foreign newspapers. Daily newspapers and popular magazines can be read in the "Newspaper and Magazine Reading Room". Photocopying is available in the library.

Reciprocal lending-borrowing agreements with a number of Ankara area universities make it possible for Bilkent graduate students and faculty to borrow books from those libraries as well. Orientation tours of the Bilkent University Library are conducted on request in English and Turkish. The Main Library also houses an Art Gallery, with exhibitions running throughout the semester, and where regular musical performances and academic lectures are held. In order to make studying and research pleasant there are two cafes in Main Library.

Further information about the Library and its collection can be found at: www.library.bilkent.edu.tr.
OFFICE OF THE DEAN OF STUDENTS

Kamer Rodoplu, Dean

Office of the Dean of Students intends to help and support students throughout their college life, assisting their development from their first to the very last day of their time in Bilkent. The Office coordinates a wide spectrum of activities performed in collaboration with students. From orientation to post-graduate career advancement, the Office is actively engaged in all steps of the personal development of Bilkent students. In this capacity, the primary objective is to develop Bilkenters into agents of change and progress in their lives and the communities they belong to and it is in fulfilling this task that the Office’s work gets its form and meaning.

Student Activities
The variety of activities offered on campus add a social component to students’ academic life. The Student Union organizes students’ social and cultural activities. Student representatives are elected by the student body; they are responsible for managing the Student Union and creating a program of activities. Located in the center of the Main Campus, the Student Union building houses cafeteria, multifunctional rooms, offices, and a small conference hall. All the clubs are established to cater to students’ various interests and needs are coordinated by the Student Union. Some of these clubs are:

- Aviation Club
- Bridge Club
- Cinema Club
- Debate Society
- Engineering Society
- Diving Club
- Management-Economics Club
- Music Club
- Operational Research
- Outdoor Sports Society
- Photography Club
- Theater Club
- Turkish Society
- Young Entrepreneurs Club

In addition, meetings, seminars, debates and trips are regularly organized allowing students to participate in various activities with many facets.

Student Union Coordination Office
The Student Union Coordination Office provides the necessary liaison between the university administration and the Student Union. In addition, the office offers students advisory services about their personal or institutional representation in domestic or international activities. The Coordinator’s office is located in the Student Union building for a better accessibility. Working closely with the Student Union, the Student Union Coordinator also provides guidance when needed for clubs and extracurricular activities.

Radio Bilkent
Radio Bilkent is a voluntary student radio station which is broadcasting on FM frequency 96.6 to the campus and citywide. Radyo Bilkent provides an opportunity for Bilkent University students to gain social and professional experiences as well as adds value to the social and cultural life of Ankara with its organizations and programmes. Radio may be listened live through internet at “www.radyobilkent.com”. Bilkent University students can follow the recent news about the station from the university newspaper, Bilkent News, and also from the radio’s web site. Radio Bilkent’s main studio is located in the Engineering Building top floor, and the second studio “Radyo Bilkent Orçun Güll”, is located in the food court on main campus.

Career Center
The Career Center provides career related services for Bilkent students throughout their university years. To prepare them for entering the business world, the Center offers workshop/seminars which focus on employment-seeking skills such as resumé writing, interviewing techniques, and career activities. Various companies, international organizations and government agencies refer to the Center to recruit graduates. In order to reunite students/graduates with the business world, the
Career Center administers a CV Database where students and graduates upload their CVs and directly apply for positions; and companies release their job postings and poll amongst the current recorded CVs.

**Psychological Counseling and Development Center**

Psychological Counseling and Development Center guides Bilkent students through their self-development journey. Helping them to develop awareness about their potential and how to apply this information into their academic, professional, social and intimate lives is the main focus of the center. In other words, the attending students are professionally supported in developing their unique personalities and creating a satisfactory life style.

The services offered by the center are individual and group counseling for the immediate purposes and seminars, workshops and self-help materials for preventive purposes. Stress management; examination and performance anxiety; interpersonal communication; concentration and study skills; time management; realistic self-evaluation; intimate relations; problem solving; effective presentation skills, enhancing cognitive skills in learning; developmental stages of life and importance of identity in personality development are some the topics covered in the preventive facilities.

The center also conducts survey type studies to explore the expectations and needs of the students. The outcome of these studies contributes to the ongoing program flow and the future planning processes.

**Social Responsibility Center**

Social Responsibility Center involves enterprises and activities that are created, organized, led and completed on a volunteer basis by the students of the University with the support of the Dean’s Office and in cooperation with nongovernmental organizations. Ongoing projects are:

- Social Responsibility Projects [www.tdp.bilkent.edu.tr](http://www.tdp.bilkent.edu.tr)
- Center for Students with Special Needs [www.engelsizkampus.bilkent.edu.tr](http://www.engelsizkampus.bilkent.edu.tr)
- Aid Campaigns [www.bilkent.edu.tr/bilkent-tr/admin-unit/dos/ssm/yardim.html](http://www.bilkent.edu.tr/bilkent-tr/admin-unit/dos/ssm/yardim.html)

**ALUMNI CENTER**

Aysê Tuğçu, Coordinator

The Bilkent Alumni Center has been established to provide the highest level of service to Bilkent University graduates, who are very important to our institution.

The primary objective of the Alumni Center is to facilitate communication among Bilkent graduates while strengthening their ties with the University. Therefore we always provide up-to-date information about our graduates and activities (panel discussions, Graduates Welcome Home Festivals and Graduation Balls) organized by the Center. Also, we keep our graduates informed about career opportunities in partnership with the Career Center.

Since the establishment of Bilkent University, we have graduated a total of 35,468 students, and we are able to reach most of them both in Turkey and abroad. We trust we will be able to reach graduates in the near feature with the support of our alumni.

**HEALTH CENTER**

Ülker Türksoy, M.D., Director (Main Campus)
Jale Erten, M.D., Director (East Campus)

The Health Centers, located on the Main and East Campuses, provide health services to students and personnel. The services are provided for all Bilkent University students.

The Health Centers offer the services of a public health specialist, a pediatrician, a neurologist, five general practitioners, two gynecologists, two ophthalmologists, two psychiatrists, a dermatologist,
an orthopedist, a dentist, a radiologist, an ENT specialist, and six nurses, three emergency medical technicians and one paramedic. The Centers have two in-house laboratories for immediate medical analysis such as blood count, urine analysis, blood chemistry and a unit for X-Ray and ultrasonographic examinations. Medicines are available on prescription at the Main Campus pharmacy and the pharmacies at Bilkent 2, in Ankuva Bilkent Center, on Tunus street. A physician and a nurse are both on duty at the Health Centers in the Main and East Campuses 24 hours a day, including weekends. In case of emergencies, there is an ambulance accompanied by Health Center’s doctors, on duty 24 hours a day to take patients, to hospitals in Ankara.

Services Provided

- Prevention against contagious diseases
- Medical examinations and first aid treatment
- Referral of patients to a specialist or hospital, if necessary
- Supervision of patients’ recovery in certain cases and provision of relevant medical services
- Conducting research into the environmental health conditions on campus and reporting the results to the university administration
- Health education programs to students and staff on general medical and health issues and first aid (providing certificates for the first aid education by the government health authorities),
- General check-up for students, if necessary.

Applying to the Health Center

The Health Center is the first place that students get in contact in the event of illness or injury. Initial treatment or first aid would be carried out at the Health Center and, if necessary, the patient may be referred to a specialist or hospital which has an agreement with the University.

The Health Mutual Aid Fund

Every student registered at Bilkent becomes a member of the Health Mutual Aid Fund, is supported financially by the Health Center. The Fund pays for routine medical services for students, such as check up (if necessary), consultations, medical tests, medicine (80% is free of charge), emergency hospital costs, etc. However, costs incurred by long-term illness such as tuberculosis, chronic kidney diseases, autoimmune diseases, chronic congestive heart failure, rheumatoid arthritis, rheumatic heart disease, diabetes mellitus, diabetes insipidus, chronic neurologic diseases, glaucoma, cataract, chronic diseases of the thyroid, chronic diseases of the parathyroid, chronic intestinal diseases, or chronic liver disease are not covered by the Fund.

In the event of relapse of previously diagnosed diseases, the Fund will provide for a maximum of 10 days of therapy.

Hospitals and Specialists Outside the Health Center

The Fund has reciprocal agreements with a number of private physicians in various specialized fields and with State and University hospitals in Ankara. The names and addresses of these doctors and hospitals are listed in a booklet available at the Health Centers.

A student who wants an examination by a specialist, who has an agreement with Bilkent Health Center, should see the doctors in the Health Center first. If the doctor in the Health Center decides for a specialist’s examination, the doctor will give the students a referral letter which is to be taken to the specialist or hospital along with the student’s ID.

The medical documents (medical report, prescription) given to the student after medical treatment must be submitted to the Health Center for approval within three days. Approved medical documents are given to the Fund’s accounting office for payment.
All medical reports given from hospitals or doctors must be approved by the doctors at the Health Center in order to be eligible for coverage. If a student is treated in a hospital or by a doctor not affiliated with Bilkent University, the charges must be paid by the student.

Costs Not Covered
The following expenses are not paid by the Fund:

- Treatment of diseases listed in the paragraph on the Health Mutual Aid Fund
- Tests or treatment outside Ankara or in foreign countries
- Tests or treatments conducted by hospitals, institutions or doctors having no agreement with the Center
- Dental check-up, tests, and treatments outside the Health Center
- Glasses and frames, hearing aid, dentures
- Any medical expenses for a member’s relatives
- Hospitalization stage.
- MR
- Tomography
- Surgery

PHYSICAL EDUCATION AND SPORTS CENTER

Hayri Özkan, Ed.D., Director

The sports programs, activities and facilities of the University are expanding constantly to keep pace with the growing needs of the large student body. The facilities include three gymnasiums, three outdoor tennis courts, two indoor tennis courts, several outdoor volleyball and basketball courts, four mini football fields, several aerobic/step studios, fitness/conditioning room and multi-purpose rooms, a regulation size grass football field on Main Campus. In addition, a modern seven thousand square meter multi-purpose sports complex (with a large state of the art fitness center, basketball, volleyball, three squash courts, aerobic/step and program studios and an indoor running-walking track) on Main Campus is used by hundreds of students every day. Furthermore, a semi-Olympic indoor swimming pool will be added to the facilities in 2014.

On-campus activities like courses, training sessions, tournaments and competitions are available in the following sports: Aerobic/step, aikido, American football, badminton, ballroom dancing, basketball, fencing, fitboxing, fitness/conditioning, football (soccer), horse riding, ice hokey, ice skating, karate, kendo, orienteering, squash, table tennis, taekwondo, tai-chi, tennis, Turkish folk dancing, ultimate frisbee, volleyball, wing tsun, yoga, and others. The students can also take many of the sports courses mentioned above as elective-credit courses every semester (see page 490 for details).

STUDENT HOUSING

Bilkent University offers graduate and undergraduate student housing on campus, in twenty-six dormitory buildings accommodating more than 4,000 students. Advice and information about accommodation in dormitories can be obtained from the Dormitories Administration Office, Bilkent University, 06800 Ankara, Turkey. Admission to the university does not automatically guarantee a space in the dormitories. Applications for housing must be submitted to the Dormitories Administration Office according to the time table announced each year.
To be considered for a space in the dormitories, or other Bilkent University identified housing after the dormitories are filled, students must meet all payment commitments (tuition and housing) on time. Dormitory openings will be assigned as they occur.

The dormitories are within walking distance of academic buildings and provide a good environment where friendships can be made and social needs met. Students learn the value of collective living and the need to develop self-discipline. They are ultimately responsible for their individual conduct, but on-hand support is continuously provided to students by employees in each dormitory building.

Rooms are arranged for single, double, triple and quadruple occupancies. Facilities within the dormitory complexes include central heating, social and study areas, laundry and ironing rooms, kitchens and bathing facilities.

All rooms are furnished and equipped with telephones and ethernet connection. General cleaning service is provided in each dormitory, but students are responsible for keeping their rooms tidy. Lavatories and showers are located on each floor. Students are required to provide their own towels.

Food may be purchased from campus grocery stores or meals may be purchased at any of the restaurants or cafeterias on campus. There are parking lots at the dormitories.

Students who bring in their own computers are able to attach their hardware directly into the university campus network from their dormitory rooms and have access to all network facilities.

Students may as well take advantage of wireless internet connection either in at least one study room in each dormitory building or in their rooms, by means of free routers obtainable from dormitory receptions, upon request.
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Chair: Meltem Gürel, Ph.D. 290 3463 mogurel@bilkent.edu.tr

Communication and Design
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Fine Arts
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FACULTY OF BUSINESS ADMINISTRATION

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FACULTY OF ECONOMICS, ADMINISTRATIVE, AND SOCIAL SCIENCES

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**History**
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**International Relations**
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**Psychology**
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**FACULTY OF EDUCATION**

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**Curriculum and Instruction**
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**FACULTY OF ENGINEERING**

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Industrial Engineering
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Mechanical Engineering
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FACULTY OF HUMANITIES AND LETTERS
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American Culture and Literature
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Archaeology
Acting Chair: Thomas Zimmermann, Ph.D. 290 1934 - 290 2477 zimmer@bilkent.edu.tr

Conference Interpreting
Chair: Tanju İnal, Ph.D. 290 1277 - 290 1278 inal@bilkent.edu.tr

English Language and Literature
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Philosophy
Chair: Varol Akman, Ph.D. 290 3349 - 290 1537 akman@bilkent.edu.tr

Turkish Literature
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Assoc. Dean: Şemsı Barış Özçelik, Ph.D. 290 2864 bozcelik@bilkent.edu.tr
FACULTY OF MUSIC AND PERFORMING ARTS

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Assoc. Dean: Kağan Korad 266 4230 - 290 1620
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Music
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Performing Arts
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FACULTY OF SCIENCE

Dean: Tayfun Özçelik 266 5081 - 290 2139
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Assoc. Dean: Ali Sinan Sertoğlu, Ph.D. 290 1490
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SCHOOL OF APPLIED LANGUAGES

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Accounting Information Systems
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Banking and Finance
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Computer Technology and Information Systems
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Tourism and Hotel Management
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Faculty Academic English Program
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Vocational Program in Translation
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**Computer Technology and Programming**
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**VOCATIONAL SCHOOL OF TOURISM AND HOTEL SERVICES**
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**Hospitality Services**
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RESEARCH CENTERS AND INSTITUTES

Acoustics and Underwater Technologies Research Center (BASTA)
Director: Hayrettin Köymen, Ph.D. 290 2457
koymen@ee.bilkent.edu.tr

Ahmed Adnan Saygun Center for Music Research and Education
Acting Director: İsmet Metin, Ph.D. 290 1387
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Bilkent Center for Advanced Studies (BİCAS)
Director: Salim Çiraci, Ph.D. 290 1216
ciraci@fen.bilkent.edu.tr

Bilkent University Centre for Applied Research on Global Issues (BUCARGI)
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Center for Research in Transitional Societies (CRTS)
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Center for Russian Studies
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Center of Turkish Politics and History
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Communications and Spectrum Management Research Center (İSYAM)
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Computational Electromagnetics Center
Director: Levent Gürel, Ph.D. 290 2096 - 290 5750 - 290 2794
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290 2407 - 290 2154
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Institute of Material Science and Nanotechnology (UNAM)
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National Magnetic Resonance Research Center
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Space Technologies Research Center
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ozbay@fen.bilkent.edu.tr

University-Industry Collaboration, Practice and Research Center
Director: Bahar Yetiş, Ph.D. 290 3156
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The Faculty of Art, Design and Architecture comprises six academic departments:

- Architecture
- Communication and Design
- Fine Arts
- Graphic Design
- Interior Architecture and Environmental Design
- Urban Design and Landscape Architecture

These departments offer undergraduate programs that lead to Bachelor of Architecture (B.Arch.), Bachelor of Fine Arts (B.F.A.), and Bachelor of Arts (B.A.) degrees. The graduate programs of the Faculty include Master of Fine Arts (M.F.A.) degree programs in the areas of Media and Design, Interior Architecture and Environmental Design, Master of Arts (M.A.) degree in the area of Media and Visual Studies, an interdisciplinary doctoral program in Art, Design and Architecture, and Ph.D. in Interior Architecture and Environmental Design.

The educational principles of the faculty are based upon the fact that the creative process in art and design relies on a broad body of knowledge for direction and inspiration. Guided by this principle, the degree programs aim to train highly competent research, design and performance oriented artists having a deep understanding of basic concepts, modern design and performance methods. The international and multidisciplinary composition of the academic staff allows the provision of interdisciplinary programs, as well as particular courses of study to meet individual educational needs.

**ACADEMIC STAFF**

**Yasemin Afacan**, Assistant Professor  

**Hasan Yusuf Akçura**, Instructor  
B.A., French Language and Literature, Faculty of Letters, Department of Western Languages and Literatures, Ankara University, 1985.

**Jülide Aksiyote**, Instructor  

**Ahmed Kamal Ali**, Instructor  

**Burçak Altyay**, Instructor  

**Serpil Altyay**, Instructor  
M.S., Urban and Regional Planning, London School of Economics, 1972.

**Kumru Arapgirlioğlu**, Instructor  
Ph.D., Public Administration and Political Sciences, Ankara University, 2003. Environmental Planning and Administration.

**Necmiye Şule Aybar**, Instructor (on leave)  

**İnci Basa**, Assistant Professor  
Ph.D., Architecture, Middle East Technical University, 2000. Architectural theory/history; architectural discourse analysis.
Herbert Bassler, Instructor

Bülent Batuman, Assistant Professor

Deniz Baykan, Instructor

Aysu Berk, Instructor

Can İzzet Birand, Instructor

Marek Brzozowski, Assistant Professor

Bülent Mehmet Çaplı, Visiting Professor
Ph.D., Communication, Istanbul University, 1990.

Gaye Çulcuoğlu, Instructor

Halime Demirkan, Professor

Mehmet Hakan Erdoğan, Instructor
B.S., Science Education, Middle East Technical University, 1989.

Feyzan Erkip, Associate Professor
Ph.D., City and Regional Planning, Middle East Technical University, 1993. Environmental analysis and design.

Giorgio Gasco, Visiting Assistant Professor
Ph.D., Architecture, Polytechnic University of Cataluna, 2007.

Ahmet Gürata, Assistant Professor
Ph.D., Cultural Studies and Humanities, University of London, 2003.

Meltem Gürer, Assistant Professor
Ph.D., Architecture, University of Illinois at Urbana-Champaign, 2007. Architectural theory/history/criticism, cross-cultural histories of modernism, gender and space, design education.

Cengiz Gürer, Instructor

Fulya Gürer, Instructor

Murad Gürzumar, Instructor

Çağrı İmamoğlu, Assistant Professor

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Mehmet Turhan Kaysu, Instructor (on leave)
M.Arch., Architecture, Middle East Technical University, 1976.

Colleen Bevin Kennedy-Karpat, Instructor
Ph.D., French Literature and Culture, Rutgers University, 2011.

Ekin Kılıç, Instructor
Proficiency in Art, Graphic Design, Hacettepe University, 2011.
Mehmet Atı Kurttekin, Instructor

Alper Küçük, Instructor
Ph.D., Architecture, Middle East Technical University, 2007.

Fulten Larlar, Instructor
M.F.A., Motion Pictures and Television, San Francisco University, 2004.

Fionn MacKillop, Assistant Professor
development, sustainability.

Ali Hayati Misman, Visiting Professor
Higher Diploma in Art, Printmaking, Gazi University, 1984.

Ahmet Oktan Nalbantoğlu, Instructor

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Ph.D., Graphic Design, Bilkent University, 2008.

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Competency in Art, Cinema and Television, Marmara University, 2004.

Nilgün Olguntürk, Associate Professor
Ph.D., Interior Architecture and Environmental Design, Bilkent University, 2000. Color, lighting,
universal design.

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M.A., Media and Visual Studies, Bilkent University, 2008.

Serpil Özaloğlu, Instructor
Ph.D., Architecture, Middle East Technical University, 2006.

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Emel Özdora Akşak, Instructor

Ahmet Özsalar, Assistant Professor

Maya Öztürk, Assistant Professor
Ph.D., Architecture, Middle East Technical University, 1999.

Adam Kazimierz Pekalski, Visiting Instructor

Mustafa Pultar, Adjunct Professor
Ph.D., Princeton University, 1965. Structural design, architectural science, environmental analysis
and design.

Ercan Sağlam, Assistant Professor
Higher Diploma in Art, Sculpture, Hacettepe University, 2001.

Çağla Nezihat Sarac, Instructor

Özlem Savaş, Assistant Professor
Ph.D., Design History and Theory, University of Applied Arts Vienna, 2008.

Necmiye Yaparak Savut, Visiting Assistant Professor
design.
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Agnieszka Srokosz, Instructor

Fundan Şenova Tunali, Instructor
Ph.D., Graphic Design, Bilkent University, 2012.

Burcu Şeynili Özcan, Associate Professor
Ph.D., Interior Architecture and Environmental Design, Bilkent University, 1998. Computer aided design, design education

Şule Taşlı Pektaş, Assistant Professor
Ph.D., Interior Architecture and Environmental Design, Bilkent University, 2003. Design methods, computer aided design, design education, information technology in construction, and design process modeling.

Sedvan Teber, Instructor

Dominique Selin Tezgör-Kassab, Professor
Ph.D., (State Doctorate), History of Civilization and Archaeology, University of Human Sciences of Dijon, 1993.

Saadet Ayşe Gül Tokol, Instructor
Ph.D., Architecture, Middle East Technical University, 1997. Urban morphology, space syntax, urban theory.

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Ph.D., Architecture, Karadeniz Technical University, 1995.

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Ph.D., Communication, University of California San Diego, 2010.

Semih Yılmazer, Assistant Professor

Mehmet Hakan Yurdadoğan, Instructor
M.Arch., Architecture, Middle East technical University, 1982.

Beata Malgorzata Zalewska-Sladczyk, Instructor

PART-TIME ACADEMIC STAFF


Aykan Alemdaroğlu, M.A., Latin Languages and Literature, Istanbul University, 2001.


Evin Deniz, M.A., Sociology of Demography, Migrations and Territory, Complutense University of Madrid, 2011.


Ufuk Ertem, B.Arch., Architecture, Middle East technical University, 1985.

Mehmet Teflik Gürsu, M.Arch., Architecture, Middle East Technical University, 1976.

Dural Kadioğlu, Ph.D., Department of Anatomy, Faculty of Medicine, Liverpool University, 1973.


Segah Sak, Ph.D., Interior Architecture and Environmental Design, Bilkent University, 2013.

Corry Shores, Ph.D., Philosophy, University of Leuven, 2012.
Doctor of Philosophy in Art, Design and Architecture

Admission: Applicants are required to have a Master’s degree in a relevant field. In addition to the general requirements set forth by the university, admittance is through an interview given before the beginning of each academic year. The date and place of the interview is announced each year by the university. All students are expected to be fluent in written and oral English in order to be admitted to the program.

Degree Requirements: The minimum course load for the Ph.D. program is 24 credit units. After completion of the courses, the student takes a qualifying examination composed of written and oral components. Upon successful completion of the qualifying exam, the student is designated as Ph.D. candidate and is assigned a dissertation committee. The next step is to prepare and defend a dissertation proposal. Upon a favorable evaluation of the proposal by the dissertation committee, the candidate qualifies for work towards a Ph.D. dissertation. At the completion of the dissertation, a jury composed of five scholars, expert in the relevant field examines the dissertation for a final decision on the degree. All Ph.D. candidates are required to have at least one article accepted for publication in an AHCI, SSCI or SCI indexed journal before the final dissertation defense.

CURRICULUM

Courses Credits / ECTS Credits
ADA 690 Seminar in Advanced Research Topics ........................................... * / *
ADA 699 Ph.D. Dissertation ................................................................. * / *
GE 690 Academic Practices ................................................................. * / *
IAED 501 Graduate Studio I ................................................................. 3 / 7.5
IAED 502 Graduate Studio II ................................................................. 3 / 7.5
IAED 511 Research Methods I ................................................................. 3 / 7.5
Electives (5) ................................................................. 15 / 30

A total of 8 required, restricted elective or general elective courses (24 credits) according to the individual students major.

GENERAL ART, DESIGN AND ARCHITECTURE COURSES

ADA 131 Architectural Drawing
A general overview of the relationship between architectural design and drawing; introduces basic principles and techniques of architectural drawings such as plan, section and elevation; initiates three dimensional expression and rendering techniques for visual communication of design ideas. Credit units: 3 ECTS Credit Units: 4. Aut (İ. Başa, H. Karaca, A. Kuşçuk, S. Teber, S. E. Ural) Spr (İ. Başa, A. Kuşçuk, N. Y. Savut, S. Teber)

ADA 134 Designing with Digital Media
Application of basic concepts and methods to the design process and representation; production of a digital set of drawings. Credit units: 3 ECTS Credit Units: 4. Aut (S. Sak, Ş. Taşlı Pektaş) Spr (B. Şenyapılı Özcan, Ş. Taşlı Pektaş, T. Türkal)

ADA 201 Collaborative Design Studio I
Introduces small-scaled projects on specific design problems; focuses on concept generation and creating functional and aesthetic interior spaces; integrates the fundamental issues of interior design and concerns of
occupancy into the architectural design process. **Credit units: 6 ECTS Credit Units: 10, Prerequisite: FA 102. Aut (H. Demirkan, K. Duruk, Ç. İmamoğlu, S. Özaloğlu, E. E. Türkkan, E. Yöürük)**

**ADA 202 Collaborative Design Studio II**
Focuses on the relationship between the building and the site; integrates basic landscape architecture concepts and principles into the design process; develops architectural design skills in the context of urban design and development. **Credit units: 6 ECTS Credit Units: 10, Prerequisite: ADA 201 or LAUD 201.**

**ADA 263 History of Built Environment I**
Definition of history and concept of continuity in the built environment are examined beginning from the prehistory to the end of the 17th century by means of selected examples from the Middle-East, Anatolia and Europe. Neolithic period, Mesopotamian, Egyptian, Ancient Greek and Roman civilizations and their architectures, until monotheist religions emerge, are main titles; then, Early Christian, Byzantine, Gothic, Renaissance and Baroque Architectures in the West; Early Islamic, Seljukid, Early and Classical Ottoman Architectures in the Middle East and Anatolia are examined with a specific emphasis on the formation of architecture, interior architecture and landscape/urban design. **Credit units: 3 ECTS Credit Units: 5. Aut (H. Bassler, G. Gasco, S. Özaloğlu, S. A. G. Tokol)**

**ADA 264 History of Built Environment II**
Beginning from the 18th century, the selected examples from Ottoman, Turkish and European/Western architectures are examined by comparative analysis. Enlightenment in the West, Westernization in the Ottoman Empire and Neoclassical architecture; developments in 19th and 20th centuries, Industrial Revolution, Early Modernism and International Style in Architecture, Regionalism, Late Modernism and their influences on Western and Turkish architectures are the main titles; the analyses are made with a specific emphasis on the formation / generation of architecture, interior space and landscape/urban design. **Credit units: 3 ECTS Credit Units: 5. Spr (K. Arapgirlioğlu, H. Bassler, G. Gasco, S. Özaloğlu)**

**ADA 302 Design Studio IV: Collaboration**
Focuses on collaborative design; integrates concepts of architectural, interior and urban design. **Credit units: 6 ECTS Credit Units: 10, Prerequisite: ARCH 301 or IAED 301 or LAUD 301. Spr (M. T. Kayasu, M. Özdamar, M. Öztürk, Ş. Taşlı Pektaş)**

**ADA 412 Contemporary Problems in Urban Sustainability**
Sustainability within global urban settings; socio-spatially situated understanding of what is ‘sustainable’. Socio-political construction of ‘sustainability’. Historical and contemporary examples in the North and South; management of natural resources (land, water...), socio-political equity; ‘right to the city’. Use of case studies and contemporary examples. **Credit units: 3 ECTS Credit Units: 6. Spr (F. MacKillop)**

**ADA 690 Seminar in Advanced Research Topics**
**Credit units: None ECTS Credit Units: None. Aut (B. Özgüc) Spr (B. Özgüc)**

**ADA 699 Ph.D. Dissertation**
**Credit units: None ECTS Credit Units: None. Aut (B. Özgüc) Spr (B. Özgüc)**
DEPARTMENT OF ARCHITECTURE


Architectural designs shape our environment and affect the way we manage our everyday lives. The faculty is devoted to educate critical and independent thinkers who comprehend the importance of architecture's social impact. The program embraces the interdisciplinary nature of the discipline and offers a broad range of courses in order to equip students with knowledge and skills that will enable them to design aesthetically pleasing, structurally safe, technologically sound, environmentally healthy, and comfortable buildings.

UNDERGRADUATE PROGRAM

During the first year, the curriculum establishes foundational knowledge in mathematics, physics, arts and culture as well as in design and architectural drawing. This foundational year reflects the interdisciplinary nature of architecture and allows students to share an intellectual environment specifically within the faculty as well as the university at large. The second year curriculum introduces students to topics of architectural history, structural design, and construction of buildings. Design studios rest at the curriculum's core and enable students to apply knowledge learned in these courses to architectural design problems. The collaborative design studios in the second year expose students to concepts of interiors, environmental design, urban design, and landscape architecture. They aim to help students understand and appreciate the interdisciplinary character of architecture. The third and fourth year courses that follow offer advanced theoretical and practical knowledge in various areas of architecture and develop skills in architectural design. Together with a wide range of electives, these courses allow students to specialize in different aspects of the discipline. Courses on professional practice and summer practices held in offices and construction sites help prepare students for future professional life.

UNDERGRADUATE CURRICULUM

FIRST YEAR

<table>
<thead>
<tr>
<th>Autumn Semester</th>
<th>Credits / ECTS Credits</th>
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<tbody>
<tr>
<td>ADA 131</td>
<td>Architectural Drawing</td>
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<td>ENG 101</td>
<td>English and Composition I</td>
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<td>FA 101</td>
<td>Basic Design I</td>
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<tr>
<td>FA 171</td>
<td>Introduction to Art and Culture I</td>
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<td>GE 100</td>
<td>Orientation</td>
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<td>MATH 101</td>
<td>Calculus I</td>
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<th>Spring Semester</th>
<th>Credits / ECTS Credits</th>
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<tbody>
<tr>
<td>ADA 134</td>
<td>Designing with Digital Media</td>
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<tr>
<td>ENG 102</td>
<td>English and Composition II</td>
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<tr>
<td>FA 102</td>
<td>Basic Design II</td>
</tr>
<tr>
<td>PHYS 101</td>
<td>General Physics I</td>
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<td>MATH 102</td>
<td>Calculus II</td>
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SECOND YEAR

<table>
<thead>
<tr>
<th>Autumn Semester</th>
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<tbody>
<tr>
<td>ADA 263</td>
<td>History of Built Environment I</td>
</tr>
<tr>
<td>ARCH 201</td>
<td>Architectural Design Studio I</td>
</tr>
<tr>
<td>ARCH 251</td>
<td>Architectural Building Systems</td>
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<tr>
<td>GE 250</td>
<td>Collegiate Activities Program I</td>
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<td>HIST 200</td>
<td>History of Turkey</td>
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<td>TURK 101</td>
<td>Turkish I</td>
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### THIRD YEAR

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<td>ARCH 401</td>
<td>Architectural Design Studio V</td>
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<td>ARCH 411</td>
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<td>ARCH 418</td>
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### HISTORY OF ARCHITECTURE ELECTIVES

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<td>ARCH 463</td>
<td>Modern Turkish Architecture</td>
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<tr>
<td>ARCH 465</td>
<td>Contemporary Architecture and Theory</td>
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</tr>
<tr>
<td>ARCH 466</td>
<td>Architectural Theory and Criticism</td>
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</table>

### COURSE DESCRIPTIONS

**ARCH 201 Architectural Design Studio I**
Introduces to principles and concepts of architectural design; case study and analysis; small-scaled projects on specific design problems. Develops skills in architectural representation. **Credit units: 6 ECTS Credit Units: 10, Prerequisite: FA 102, Aut (A. K. Ali, M. Gürel)**

**ARCH 202 Architectural Design Studio II**
Focuses on the relationship between the building and the site; integrates basic urban concepts into the design process; develops architectural design skills in the context of urban design and development. **Credit units: 6 ECTS Credit Units: 10, Prerequisite: ARCH 201, Spr (I. Basa, F. MacKillop)**

**ARCH 231 Statics and Strength of Materials**
Basic concepts and principles of statics; vector mechanics; geometrical properties: center of gravity, moment of inertia; free body diagrams; internal forces: shear and moment diagrams; analysis of simple load-carrying structures: beams and trusses; columns; concepts of stress, strain and deformation. **Credit units: 3 ECTS Credit Units: 5, Prerequisite: MATH 101, Aut (A. Berk) Spr (A. Berk)**

**ARCH 251 Architectural Building Systems**
Introduction to building construction elements, methods, materials and technology; understanding of building components, such as roofs, walls, floors and stairs as systems; analysis of traditional and current building technologies; communication of construction ideas through visual tools. **Credit units: 3 ECTS Credit Units: 6, Prerequisite: ADA 131, Aut (A. K. Ali)**
ARCH 252 Construction and Materials
Continuation of ARCH 251; further studies of construction methods, materials and building systems; integration of design and building technology; building sustainability; development of a set of construction documents. Credit units: 4 ECTS Credit Units: 6, Prerequisite: ARCH 251. Spr (A. K. Ali)

ARCH 290 Summer Practice I
Practical experience in building construction processes; active participation in construction work on site (4 weeks). Credit units: None ECTS Credit Units: None.

ARCH 301 Architectural Design Studio III
Emphasizes the core discipline; develops a comprehensive understanding of architectural design; investigates functional complexity, spatial variety, aesthetic and technological components of buildings; endorses creative interpretation of concepts, principles and methods of architectural design; develops awareness on the concepts of environmental sustainability and building design. Credit units: 6 ECTS Credit Units: 10, Prerequisite: ARCH 202.

ARCH 315 Computerized Presentation Techniques
Advanced usage of computerized programs for representation of projects by integrating traditional and computer media. Credit units: 3 ECTS Credit Units: 6.

ARCH 317 Parametric Design Studio
Different parameters of design are examined; skills are acquired in establishing building information systems (BIMs) and using them efficiently through the utilization of related software packages. Credit units: 3 ECTS Credit Units: 6.

ARCH 321 Architecture and Society
Investigation of societal and environmental aspects and determinants of architectural design; analysis of case studies. Credit units: 3 ECTS Credit Units: 4.

ARCH 331 Structural Design I
Principal structural elements of a building: Beams, columns and slabs. Load distributions on the structure. Introduction to steel; structural design of steel elements. Analysis of architectural applications. Case studies of historic and contemporary steel structures. Credit units: 3 ECTS Credit Units: 5, Prerequisite: ARCH 231.

ARCH 332 Structural Design II
Introduction to concrete, design and analysis of reinforced concrete members. Exploring pre-stressed and post tension techniques. Case studies of historic and contemporary examples. Earthquake: Importance and role in structural design. Introduction to finite element modeling (FEM) and computer analysis. Credit units: 3 ECTS Credit Units: 5, Prerequisite: ARCH 331.

ARCH 333 Form and Structure
Provides an understanding of the behavior of structures in relation to their form; studies spatial structures such as shells, domes, cable-nets and fabrics using computer programs where the relationship between the geometrical form and the structural behavior will be observed and explained through structural simulations. Credit units: 3 ECTS Credit Units: 6.

ARCH 341 Environmental Technology I
Study of fundamental daylight and artificial lighting principles; building lighting performance; lighting design methods. Introduces concepts of architectural acoustics; sound behavior in buildings; noise control; fundamental design principles and methods. Fire prevention in buildings; life-safety systems and architectural applications; standards and regulations. Credit units: 3 ECTS Credit Units: 5.

ARCH 342 Environmental Technology II
Reviews contemporary mechanical systems and equipment for heating, cooling, ventilation and plumbing; considers environmental sustainability; integration of water supply and heating systems into the building design; waste water disposal; electrical systems, wiring; evaluation of performance of building service systems including their environmental impacts; technical drawings and documentation of the proposed designs. Credit units: 3 ECTS Credit Units: 4.

ARCH 351 Urban Metabolism: tools from the social sciences for architects and designers
City as a dynamic, contested space, marked by reconfiguration and change. Literatures of actor-network theory, urban political ecology, urban regime theory; links between transformation of resources into built environment, with a focus on housing, and accompanying flows (people, resources, waste, power); dynamics of socio-political power and domination in cities. Credit units: 3 ECTS Credit Units: 6. Aut (F. MacKillop) Spr (F. MacKillop)

ARCH 390 Summer Practice II
Practical experience in an architectural office; active participation in the design process and project development; observation of office environment (4 weeks). Credit units: None ECTS Credit Units: None.
ARCH 401  Architectural Design Studio V
Embody complex form generation based on architectural technologies that deal with building components and their interactions. Encourages the integration of technological advancements in construction and presentation techniques to the design process. Special consideration is given to contextual design, community leadership, participatory design and generation of building programs. Credit units: 6 ECTS Credit Units: 10, Prerequisite: ADA 302.

ARCH 402  Architectural Design Studio VI
Emphasizes architectural complexity involving all relevant issues of a comprehensive design process including production drawings and documents; develops contemporary design solutions for a high-quality, sustainable and aesthetic built environment; focuses on multifunctional building design with complex programs in an urban context; physical and social integration of building into the urban texture. Credit units: 6 ECTS Credit Units: 10, Prerequisite: ARCH 401.

ARCH 411  Conservation of Historical Environments
General introduction to the principles and techniques of conservation and restoration; focuses on the problems and developments related to conservation in Turkey; covers analysis of restored historic sites and buildings. Credit units: 3 ECTS Credit Units: 6.

ARCH 417  Advanced Visualization Studio
Advanced techniques in computer aided visualization. Virtual environments, internet based platforms and software packages for design related disciplines are utilized for creating design visualizations. Credit units: 3 ECTS Credit Units: 6.

ARCH 418  Professional Practice
Professional administration of architectural design projects and the construction process; conduct of architectural practice; financial planning and contracts; professional ethics; rights and responsibilities of architects and clients; role of client and user; codes and legal aspects of building construction. Credit units: 3 ECTS Credit Units: 6.

ARCH 463  Modern Turkish Architecture
Study of architectural developments in Turkey from 1900 to the present within a socio-cultural framework; particular emphasis on the interrelationship of architecture and political developments; survey of important buildings, key figures of architecture and urban design; extensive readings on the subject. Credit units: 3 ECTS Credit Units: 6.

ARCH 465  Contemporary Architecture and Theory
Review of the developments in Western architectural culture from the turn of the twentieth century to the present; contemporary architectural movements and theories. Credit units: 3 ECTS Credit Units: 6.

ARCH 466  Architectural Theory and Criticism
Investigation of architectural history, theory and criticism on special topics; social, cultural and political influences on architecture; readings of important theoretical and critical writings about a broad range of topics. Credit units: 3 ECTS Credit Units: 6.
DEPARTMENT OF COMMUNICATION AND DESIGN


Modern media is a leading force in the contemporary process of globalization. The department of Communication and Design aims to educate media professionals, with a special emphasis on visual communication and visual technologies, specifically in the fields of advertising, journalism, visual design, video and TV production and new media. Students are provided with a wide range of courses in media studies, theories and practice, like interpersonal communication and individual presentation, forms and techniques of public and mass communication, visual design and visual studies, advertising, marketing and public relations, basic computer and Internet knowledge. The visual design and communication courses in practical fields such as photography, television, computer and video are conducted in computer labs with the most developed visual design programs, photography studios and a very well equipped digital video production studio. Since the department’s philosophy is to educate both creative and responsible media professionals, it also includes several must and elective courses on the ethical, legal and social problems related with mass communication.

UNDERGRADUATE CURRICULUM

FIRST YEAR

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<thead>
<tr>
<th>Autumn Semester</th>
<th>Credits / ECTS Credits</th>
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<tr>
<td>COMD 101</td>
<td>Visual Communication Design I ........................................... 6 / 10</td>
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<tr>
<td>CS 153</td>
<td>Introduction to Computing I ............................................... 3 / 6</td>
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<tr>
<td>ENG 101</td>
<td>English and Composition I .................................................. 3 / 6</td>
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<tr>
<td>FA 171</td>
<td>Introduction to Art and Culture I ....................................... 3 / 5</td>
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<td>GE 100</td>
<td>Orientation ........................................................................... 1 / 1</td>
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<tr>
<td>SOC 101</td>
<td>Introduction to Sociology ..................................................... 3 / 5</td>
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<td>Turkish I ................................................................................ 2 / 1</td>
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<tr>
<td>COMD 205</td>
<td>Basic Photography .................................................................... 3 / 6</td>
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<td>CS 155</td>
<td>Multimedia Authoring System and Standards ................................ 3 / 6</td>
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<td>Collegiate Activities Program I ............................................. - / 1</td>
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<td>HUM 111</td>
<td>Cultures Civilizations and Ideas I .......................................... 3 / 4</td>
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<td>MATH 264</td>
<td>Statistics for Social Sciences ................................................... 3 / 6</td>
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<td>Introduction to Digital Cinematography .................................... 3 / 6</td>
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# Department of Communication and Design

## Third Year

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<tr>
<td>COMD 305</td>
<td>Digital Video Production I</td>
<td>3 / 6</td>
</tr>
<tr>
<td>COMD 321</td>
<td>Analysis of Moving Image</td>
<td>3 / 6</td>
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<td>COMD 341</td>
<td>Media and Society</td>
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<td>COMD 471</td>
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<td>COMD 342</td>
<td>Popular Culture</td>
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<td>COMD 348</td>
<td>New Media</td>
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## Restricted Electives

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<td>COMD 310</td>
<td>Screenwriting</td>
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<td>COMD 322</td>
<td>Film Theory and Criticism</td>
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<td>News Reporting and Writing</td>
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<td>COMD 344</td>
<td>Visual Technologies and Visual Narratives</td>
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<td>COMD 346</td>
<td>Introduction to Advertising</td>
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<td>COMD 347</td>
<td>Media Industries</td>
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<td>COMD 349</td>
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<td>Social Media Marketing</td>
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<td>COMD 361</td>
<td>Sound Design I</td>
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<td>COMD 362</td>
<td>Sound Design II</td>
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<td>Media, Memory and Culture</td>
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<td>COMD 422</td>
<td>Advanced Issues in Communication Studies</td>
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<td>COMD 424</td>
<td>Media Theory and Methods</td>
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<td>COMD 433</td>
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<td>COMD 434</td>
<td>Special Topics in Journalism</td>
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<td>COMD 435</td>
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<td>Television Genres</td>
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<td>Post-production Techniques</td>
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<td>COMD 439</td>
<td>International Public Relations</td>
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<td>COMD 442</td>
<td>Special Topics in Visual Studies</td>
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<td>COMD 461</td>
<td>Public Relations and Communication Campaigns</td>
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<tr>
<td>CS 156</td>
<td>Introduction to Advanced User Interfaces</td>
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<td>MAN 333</td>
<td>Marketing Principles</td>
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<tr>
<td>MAN 432</td>
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MINOR PROGRAM

The Department of Communication and Design is a response to the growing need of our increasingly globalized and networked world in which mass communications and visual technologies of various kinds play a fundamental role. By providing a wide range of courses in media studies, theories and practice, the Department of Communication and Design aims to educate media professionals, with a special emphasis on visual communication and visual technologies, specifically in the fields of advertising, journalism, visual design, video and TV production and new media. Our rationale is to produce knowledgeable and responsible media professionals who are able to respond to the urgent needs of development and globalization in effective ways.

The Minor Program in Communication and Design aims to introduce dynamics of media theory and practice to Bilkent students from different backgrounds. As a complement to their major area of study, the minor program give the students a deep insight into the fields of communication, media and design, and prepare them for a career that requires them to anticipate the impact of communication in our day.

Students enrolled in any of the Bilkent faculties are eligible to apply, provided that they fulfill the application criteria set by the university.

The minor program consists of six courses in total, of which three are mandatory. The mandatory courses are COMD 203 Introduction to Communication Studies I, COMD 204 Introduction to Communication Studies II, and COMD 321 Analysis of Moving Image. Additionally, according to their fields of interest, students choose three 300 or 400 level Communication and Design courses.

Prerequisite Courses: None

CURRICULUM

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<tr>
<td>COMD 204 Introduction to Communication Studies II</td>
<td>3 / 6</td>
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<tr>
<td>COMD 321 Analysis of Moving Image</td>
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<tr>
<td>Elective-300 or 400 level COMD courses (3)</td>
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GRADUATE PROGRAMS

Master of Arts (M.A.) in Media and Visual Studies

The Department of Communication and Design offers Master of Arts program in Media and Visual Studies. The M.A. program aims to prepare students for careers in the media and communications sector as well as academic careers. It provides students with a sophisticated conceptual framework and analytical skills to enable them to make original contributions to media, visual and cultural studies by specializing in a particular aspect of Turkish or international media such as film, television, Internet or printed medium. The program encourages free and creative thinking, emphasizing research, analysis, interpretation, and criticism. Aiming at improving the standards of Turkish media, visual and cultural studies, the program encourages theoretical, interdisciplinary, and comparative approaches.

Admission: Applicants are required to have a Bachelor's degree. In addition to the general requirements set forth by the university, admittance to the graduate program is determined by the results of an entrance examination. The date and place of the examination are announced each year by the University.

Degree Requirements: After the completion of at least 24 units of course work in two successive terms, the candidates must take two seminars in their area of interest and prepare and submit a thesis. The duration of program is four semesters.

CURRICULUM OF MASTERS PROGRAM

<table>
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<tbody>
<tr>
<td>COMD 511 Theory and Method in Media Visual and Cultural Studies</td>
<td>3 / 7.5</td>
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<tr>
<td>COMD 590 Seminar in Research Topics</td>
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The Master of Fine Arts program in Media and Design is a joint program offered by the Department of Graphic Design and the Department of Communication and Design. The M.F.A. program aims to prepare students primarily for careers in the media and graphic design sectors and secondarily in the academia. Integrating practical, theoretical, interdisciplinary, and comparative approaches, the program provides students with a sophisticated theoretical and practical framework to enable them to make original contributions to both Turkish and international media and design production. The program encourages free and creative thinking, emphasizing research, analysis, interpretation, practice and constructive criticism.

**Admission:** Applicants are required to have a four-year undergraduate degree. In addition to the general requirements set forth by the university, admittance to the program is determined by the results of an interview and the evaluation of the portfolios consisting of media and design works that have been done before (fiction writing, drawings, illustrations, graphic designs, scripts, storyboards, slides, photographs, web designs, animation projects, and/or videos). The date and place of the interview are announced each year by the University.

**Degree Requirements:** After the completion of at least 24 units of course work in two successive terms, the candidates must take two research seminars in their area of interest and prepare and submit a thesis project of media and design that also contains a written component. The duration of the program is four semesters.

### CURRICULUM OF MASTERS PROGRAM

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<thead>
<tr>
<th>Courses</th>
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<td>GE 590 Academic Practices</td>
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<td>GRA 590 Seminar in Research Topics</td>
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<td>GRA 599 Master's Thesis</td>
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<td>Restricted Electives (5)</td>
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<td>COMD 514 Identity Space and Image</td>
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<td>COMD 515 Media Reception</td>
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<td>COMD 516 Turkish Cinema and Modernity</td>
<td>3 / 7.5</td>
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<td>COMD 521 Body Movement and Vision in Immersive and Interactive Media I</td>
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<td>COMD 522 Body Movement and Vision in Immersive and Interactive Media II</td>
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<td>COMD 541 Writing for Media</td>
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<td>COMD 566 Documentary Form and Practice</td>
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<td>GRA 503 Illustration I</td>
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<td>GRA 504 Illustration II</td>
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<tr>
<td>GRA 511 Typography I</td>
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<td>GRA 512 Typography II</td>
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<td>GRA 517 Image Time and Motion I</td>
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<td>GRA 518 Image Time and Motion II</td>
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<td>GRA 519 Critical Approaches to Advertising Consumer Culture</td>
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<td>GRA 521 Animation I</td>
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<td>GRA 541 Graphic and Visual Representation</td>
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<td>GRA 542 Mass Media and Visual Technologies</td>
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<tr>
<td>GRA 555 On Critical Reasoning and Artwork</td>
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COURSE DESCRIPTIONS

UNDERGRADUATE COURSES

COMD 101 Visual Communication Design I
An elementary introduction to the principles of visual design and communication. Concepts of form, pattern, color, composition and function. Basic problem solving strategies in two-dimensional design. Development of visual awareness and visual literacy. Theories of perception, Gestalt and design dynamics. Credit units: 6 ECTS Credit Units: 10, Aut (J. Aksıyote, F. Şenova Tunalı)

COMD 102 Visual Communication Design II
Traditional media approaches and contemporary digital applications incorporated to solve problems within the visual arts. Advanced uses of form, pattern, color, composition and function to solve both two-dimensional and three-dimensional problems. Usage of different visual forms through photography, illustration, typography and graphic design. Credit units: 6 ECTS Credit Units: 10, Prerequisite: COMD 101, Spr (J. Aksıyote, F. Şenova Tunalı)

COMD 203 Introduction to Communication Studies I
Communication as a process: Code, massage, sign, medium and context. Theories and models of communication: Linguistics, semiotics and engineering models. Encoding and decoding, analog and digital codes. Convention and use. Literal, symbolic and metaphorical communication; visual metaphors. Credit units: 3 ECTS Credit Units: 6, Aut (A. Gürata, O. Savas)

COMD 204 Introduction to Communication Studies II
Various forms and modes of communication. Modern media of communication. The impact of technology on communication, especially mass communication. Visual and verbal aspects; narrative, technology and spectatorship. Credit units: 3 ECTS Credit Units: 6, Prerequisite: COMD 203, Spr (C. B. Kennedy-Karpat)

COMD 205 Basic Photography
An introductory course in photography. Taking photographs: interior/exterior, knowledge of composition and film developing, and basic laboratory practices. Credit units: 3 ECTS Credit Units: 6, Prerequisite: COMD 102, Aut (K. Olguntürk)

COMD 206 Introduction to Digital Cinematography
An introductory course in digital cinematography for moving image production in various kinds of media formats. Students are expected to learn basic professional video camera operation and cinematographic skills such as camera movement, framing, composition, and lighting for video through practical exercises and assignments. Credit units: 3 ECTS Credit Units: 6, Prerequisite: COMD 205, Aut (H. Y. Akcura) Spr (H. Y. Akcura, K. Olguntürk)

COMD 207 Film History
This course explores the history of cinema from its invention to the digital era. It covers major breakthroughs, significant movements and genres in cinema, as well as different topics, such as style and meaning, elements of film narrative, techniques of film production. The course will also examine the historical, political and cultural context of the movies. Credit units: 3 ECTS Credit Units: 6, Aut (C. Shores) Spr (C. Shores)

COMD 210 Introduction to Screenwriting
This course introduces basic notions of classical narrative scriptwriting such as character, structure, plot, dialogue, genre, and theme, as well as the textual elements of other audio-visual forms such as documentary, experimental and multimedia presentations. Students acquire experience in the correct formatting of scripts, writing dialogue rich with subtext, pitching their ideas, and proposal writing. By the end of the course, students will have completed a short script using classical narrative tools and a proposal for a second audio-visual project of any type or genre. Credit units: 3 ECTS Credit Units: 6, Aut (F. Larlar, H. Vural Johnson) Spr (F. Larlar)

COMD 290 Summer Practice I
This summer training is intended to give the students an experience in the organization, structure and working of an advertising agency, graphic design studio, multimedia studio, public relations office or bureau, newspaper,
television and television production. The minimum time of this practice is 4 weeks. Credit units: None ECTS Credit Units: None, Prerequisite: COMD 204. Aut (K. Olguntürk)

COMD 305 Digital Video Production I
Through various kinds of digital video projects students will have the chance to develop their teamwork skills and learn the professional production process including pre-production, principal photography, and post-production, as well as production planning, shooting and editing, basic sound recording and design, and preparing a digital portfolio. Students will be guided to take on various new tasks. Credit units: 3 ECTS Credit Units: 6, Prerequisite: COMD 206. Aut (H. Y. Akcura, K. Olguntürk) Spr (K. Olguntürk)

COMD 306 Digital Video Production II
This course is a continuation of COMD 305 and will help students to advance their video production and directing skills. The course emphasizes time management and project design. Students will be enabled to improve their computer and technology skills in digital video post-production through more complex projects. Credit units: 3 ECTS Credit Units: 6, Prerequisite: COMD 305. Spr (K. Olguntürk)

COMD 310 Screenwriting
An introduction to the art of story-telling and examination of the ways people communicate experiences to each other. It aims to encourage students to recognize the significance of memory, observation and interpersonal relationships from their own experience, in the construction of narrative from for the screen. It examines the ways in which an audience can be manipulated through the use of language, particularly the spoken word. It seeks to illustrate "universal" or shared themes with stories drawn from experience and to introduce students to the conventions, problems and possibilities of screenwriting from. It is complementary to video production. Credit units: 3 ECTS Credit Units: 6. Aut (H. Vural Johnson) Spr (H. Vural Johnson)

COMD 321 Analysis of Moving Image
This course introduces students to basic grammar of cinematic language, which has become the basis for making meaning in a variety of visual media. Topics to be covered include mise-en-scene, cinematography, editing, sound-image relationships, narrative forms, and non-narrative forms (documentary and experimental). Attention is given to both dominant practices (e.g., Classical Hollywood Cinema) and alternatives. Attention is also paid to how and why different media (cinema, video, broadcast television) make different uses of this shared grammar. Credit units: 3 ECTS Credit Units: 6, Prerequisite: COMD 204. Aut (F. Larlar)

COMD 322 Film Theory and Criticism
This course aims to introduce the key debates in film theory. Some of the topics and concepts that will be covered are "realism," "formalism," "avant-garde cinema," "auteur theory," "film language," "genre theory," "film, subjectivity and ideology," and "reception theory." These topics will be discussed in relation to the basic elements of film such as narrative, mise-en-scene, camera use, sound, and editing. Credit units: 3 ECTS Credit Units: 6. Spr (A. Gürata)

COMD 331 News Reporting and Writing
News reporting and production techniques of radio and television. Gathering information, editing and writing under strict deadlines in order to prepare the student for a professional position. News values, and responsibilities. Basic news writing and style principles, interviewing techniques. Credit units: 3 ECTS Credit Units: 6. Spr (Staff)

COMD 333 News and Society
The function and nature of news in contemporary society and its role and impact on social and political affairs. The topics that will be covered are: the concept of information and its role in the modern world; news and story-telling, news as genre of writing and discourse; news values; agenda-setting; construction of reality; news and propaganda; journalistic ethics. Credit units: 3 ECTS Credit Units: 6.

COMD 341 Media and Society
The media as a major social institution, the relationship between media and society. The production and reception of media content, the impact of media over other institutions, society and culture as well as the effects over individual behavior. Questions of control and ownership, public and private media. Mass culture and popular culture. Different forms and genres of media, fictional and news material. Propaganda and ideological influence. The impact of new technologies of communication. Credit units: 3 ECTS Credit Units: 6. Aut (F. Ülgen)

COMD 342 Popular Culture
This course aims to give the students an awareness of how popular culture operates in specific ways. Popular narrative and entertainment forms will be examined in contrast with "higher" forms of culture. The course will focus on the impact of cultural forms on the audiences and offer a critical study of the existing theories on the subject. Significant cases from literature, press, film and TV will be discussed in the class. Credit units: 3 ECTS Credit Units: 6. Spr (Ö. Savas)

COMD 344 Visual Technologies and Visual Narratives
An intermediary course on various issues relating to visual technologies such as photography, film, television and internet. Emergence, history and development visual technologies. Image in modernity. The nature of
ECTS Credit Units: 6.

COMD 346 Introduction to Advertising
This course provides an introduction to the basics of advertising: the functions of advertising; planning, execution and production of advertisements; its role in marketing communications mix; economics and social influence; advertising institutions and media; campaigns and appropriations; retail and business-to-business aspects; social and ethical aspects of advertising. Credit units: 3 ECTS Credit Units: 6. Aut (E. Özçora Aksak)

COMD 347 Media Industries
This course aims to survey the media industry, and the careers in television, film and new media. In the course, students will explore the titles, duties and responsibilities, as well as abilities, skills, experience and training required for different media careers. The course also includes some guest lectures from the media professionals. Credit units: 3 ECTS Credit Units: 6. Spr (Staff)

COMD 348 New Media
This course aims to provide students with basic knowledge on new media. It basically explores the differences of new media form conventional media. It covers new media forms such as social media, online video, podcasting, wikis, computer games, etc. The course also examines the new forms of narrative in digital era, so called digital storytelling. Credit units: 3 ECTS Credit Units: 6. Spr (E. Ocak)

COMD 349 Media Planning
This course is designed to provide a framework for understanding the role of effective media planning in the overall context of advertising and public relations decisions. The course will cover topics related to selection, evaluation, and planning of advertising and public relations media. It will consider various decisions and problems that arise in the media planning process. Credit units: 3 ECTS Credit Units: 6.

COMD 354 Interactive Media Design and Development
This course introduces the students to both the practical and theoretical fundamentals of design and implementation of interactive multimedia systems. Topics covered include: Principles of Human Computer Interaction, Interaction Design, Camera-based Interaction, Interactive Games, Live Audio and Video Processing, Motion Detection, Gesture Recognition, Tangible Media, Interactive Spaces. Credit units: 3 ECTS Credit Units: 6. Spr (Staff)

COMD 355 Social Media Marketing
Social platforms such as Facebook, Twitter and Pinterest are driving marketing practices in today’s world. This course provides an introduction to using social media as a marketing tool and develop competitive strategies. Using case studies, best-practice methodology and current news items, students learn how the elements of a digital strategy together with traditional media effect purchasing decisions. The aim of the course is to teach students to develop comprehensive digital marketing and social media plans. Credit units: 3 ECTS Credit Units: 6. Spr (O. Abaci)

COMD 361 Sound Design I
A introductory course designed to create and improve students’ awareness of and respect for audio in relation to visual media. Students are introduced to basic audio production and post-production techniques for video and film. Emphasize is given to skill development in sound recording in studio and on location, signal processing, digital audio editing and mixing. Credit units: 3 ECTS Credit Units: 6. Aut (U. Önen) Spr (U. Önen)

COMD 362 Sound Design II
Continuation of Sound Design I. This course provides the students with advanced audio post-production techniques for video and film and also explores the constituents and creative potential of sound design for better communication of ideas through artistic and expressive uses of sound. Credit units: 3 ECTS Credit Units: 6. Prerequisite: COMD 361.

COMD 363 Music and Media
Media shapes the production, distribution and consumption of music. This course explores theories and practices of music and music technologies in relation to media. It covers a variety of perspectives including artistic, industrial and cultural dimensions. Credit units: 3 ECTS Credit Units: 6. Aut (U. Önen) Spr (U. Önen)

COMD 364 Video Production for Non-majors
This course for digital moving image production will introduce fundamental technical skills including lighting, sound, camera techniques and basic editing in cinematographic contexts that are essential to media production. Students are expected to produce various videos during the semester. Credit units: 3 ECTS Credit Units: 6. Aut (H. Y. Akcura) Spr (H. Y. Akcura)

COMD 365 Media, Memory and Culture
The complexity of human memory has been of central interest to cognitive science for decades. But how do societies, nations, cultures remember and forget? What is collective memory? How can memory be socially and
culturally constructed? What kinds of political struggles inform, shape, and even change collective memories? What is the relationship between collective memory and collective identity? This course examines the formation of collective memories and politics of the past through the lenses of a broad spectrum of media including architecture, monuments, museums, photography, cinema and digital media. Credit units: 3 ECTS Credit Units: 6. Spr (F. Özgen)

COMD 390 Summer Practice II
In this summer training, students are expected to participate actively audiovisual media productions, such as television, multimedia, public relations, and advertisement. Students are also expected to make detailed observations in planning, media integration, and production techniques and tools, as well as to get an understanding of teamwork, team relations, and production/client relations. The minimum time for the practice is 4 weeks. Credit units: None ECTS Credit Units: 6. Spr (F. Özgen)

COMD 424 Media Theory and Methods
Examination of various methods of studying media at an advanced senior level: semiotic and content analysis, theories of identification, audience studies and ethnographies, economics of media. Students are supposed to design and conduct their own research and write research and write research papers in media studies. Credit units: 3 ECTS Credit Units: 6.

COMD 431 Global Communications
The course will focus international communication system and global news media and television such as CNN and BBC; global media and entertainment industries such as Hollywood or MTV. Global ideologies and paradigms: Orientalism, global information inequality, local reception of global media production. Global vs local or national media. Credit units: 3 ECTS Credit Units: 6.

COMD 433 Gender and Media
Representation of masculinity and feminity in the media. Gender bias and stereotypes in the portrayal of gender in film, television, internet and print media. Gendered audiences and gender differences in media reception. Issues of pornography and censorship, in the use of women's images in advertising and marketing. The role of media transforming as well as perpetuating gender roles gender inequality. Credit units: 3 ECTS Credit Units: 6. Aut (Ö. Savas)

COMD 434 Special Topics in Journalism
Study of selected advanced topics in journalism with the purpose of depending a critical understanding of their profession for would-be journalists. Among the possible topics are: a critical focus on the complicated nature of concepts such fact, truth and evidence as well as the context in which journalism takes places; issues of privacy and publicity; journalistic ethics; the setting of the news agenda; the impact technological change and varieties of journalism such as science journalism, art and culture journalism, investigative journalism, investigate journalism, political journalism and business and economic journalism. Credit units: 3 ECTS Credit Units: 6. Spr (B. M. Çaplı)

COMD 435 Documentary
This course aims to provide students with basic knowledge on documentary cinema. It explores the sub-genres and modes of documentary from its emergence to the digital era. This course gives special emphasis to the newly emerging digital modes of documentary. Credit units: 3 ECTS Credit Units: 6. Aut (E. Oçağ)

COMD 436 Television Genres
What is television's role as a cultural, social, political and industrial force? The course aims to assess television's changing nature as an area of inquiry. As well as uses and limitations of genre theory, format adaptations, genre mutations and interactive television will be explored in this course. Credit units: 3 ECTS Credit Units: 6. Spr (B. M. Çaplı)

COMD 437 Post-production Techniques
This course aims to introduce various film and media post-production techniques. The techniques covered include 3D integrations, animations and green-box installations. As a result of the course, students are expected to work as groups and perform a project by the end of the semester. Credit units: 3 ECTS Credit Units: 6. Aut (Ö. Abacı)

COMD 438 Adaptation in Media
This course focuses on adaptation of content across media: film, literature, television, theater, computer games, comics, graphic novels. Explores how adaptation has helped build media franchises with global influence. Issues in cross-cultural adaptation, developments in adaptation theory, and critical approaches to adapted texts. Credit units: 3 ECTS Credit Units: 6. Spr (C. B. Kennedy-Karpal)

COMD 439 International Public Relations
This course analyzes the impact of public relations activities from an international context including community and nation building, relationship management, and multi-national entities. Case studies and examples from different countries are studied to gain in depth understanding about how cultural context might be influential over public relations practices. Credit units: 3 ECTS Credit Units: 6. Spr (E. Özdoğa Aksşak)
COMD 442  Special Topics in Visual Studies
Study of selected advanced topics in visual media and technologies. The modern concept of technology and the concepts of image, visual language. The new media and digital language and signs. The role and power of visual technology and media in the shaping of culture, language, subjectivity and society. Credit units: 3 ECTS Credit Units: 6. Spr (F. Ölegen)

COMD 461  Public Relations and Communication Campaigns
Theory and practice of public relations and public communication. PR and opinion research, communication process and building effective campaign strategy. Case studies in PR and public communication, commercial and political advertising, humanitarian campaigns. Ethical considerations and impact on society. Credit units: 3 ECTS Credit Units: 6. Spr (E. Özçorak Akşıyak)

COMD 462  Special Topics in Advertising
Study of selected advanced topics in advertisement production and research focusing on various media application and future developments. Creativity and diversity, advertising research and planning of campaigns, generating ideas and strategy, copywriting for television, radio and direct marketing. Credit units: 3 ECTS Credit Units: 6, Prerequisite: COMD 346. Spr (E. Özçorak Akşıyak)

COMD 471  Media Ethics
A survey of the current ethical problems and issues in reporting, editing and broadcasting moral principles, legal regulations and their application to these problems. Examination of case studies with special emphasis on questions of privacy and freedom of information. Credit units: 3 ECTS Credit Units: 6. Aut (B. M. Çapılı)

COMD 481  Visual Communication Project I
Introduction to planning, media integration, and production techniques and tools of interactive multimedia. Through practical exercises. The course will expose students to major component media including computer text, graphics, photography, animation, speech, sound, and video. Technical and human interface issues also are covered. Credit units: 4 ECTS Credit Units: 6. Prerequisite: COMD 306. Aut (H. Y. Akçura, U. Önen)

COMD 482  Visual Communication Project II
Introduction to planning, media integration, and production techniques and tools of interactive multimedia. Through practical exercises. The course will expose students to major component media including computer text, graphic, photography, animation, speech, sound, and video. Technical and human interface issues also are covered. Credit units: 4 ECTS Credit Units: 6. Prerequisite: COMD 481. Spr (H. Y. Akçura, F. Larlar, U. Önen)

GRADUATE COURSES

COMD 511  Theory and Method in Media Visual and Cultural Studies
This course is designed to introduce the student to major theories and methods in media, visual and cultural studies: mass culture theory, empirical effect studies, ethnography, Frankfurt School, semiotics and structuralism, cultural studies, psychoanalysis and post-structuralism. Various issues and aspects of modern media and culture will come under consideration such as effects and affectivity, signs and signification, image and power, issues of class, race and gender, the ways of studying media as text, institution, audiences and subcultures. Credit units: 3 ECTS Credit Units: 7.5. Aut (B. M. Çapılı)

COMD 513  Film and Genre
This course aims to investigate the key terms of film theory such as narrative, mise-en-scene, subjectivity, the gaze, the voice, spectatorship, sexual difference, suture and so forth in relation to the question of “genre.” Selections from various film genres will be examined. Credit units: 3 ECTS Credit Units: 7.5. Spr (A. Gürata)

COMD 514  Identity Space and Image
This course will introduce students to debates on “identity” and “subjectivity” in contemporary visual and cultural studies. Drawing upon various theoretical and methodological sources, the course places the emphasis on how identity and subjectivity can be conceived in relation to the concepts of space, memory, belonging, hybridity and migrancy in contemporary global culture. Credit units: 3 ECTS Credit Units: 7.5. Spr (Ö. Savaş)

COMD 515  Media Reception
Drawing upon different theoretical and methodological approaches to the study of media reception, this course explores the relationship between media texts and their audiences. A variety of media and media genres including films, TV serials, comics and popular literature are discussed together with topics such as media effects, active audience theory, ethnography, fandom, gender, nation, and ethnicity. Credit units: 3 ECTS Credit Units: 7.5.

COMD 516  Turkish Cinema and Modernity
This course aims to discuss Turkish cinema in relation to the question of “modernity.” Making a critical analysis of the historical development of Turkish cinema in the context of Turkey’s experience of modernity, the course will investigate the debates around “Yeşilçam cinema,” “national cinema,” “social realism,” “Third world cinema,” “women’s films,” “art cinema,” and “the new Turkish cinema.” Credit units: 3 ECTS Credit Units: 7.5. Aut (A. Gürata)
COMD 517  Topics in Media Studies
This course gives the students the opportunity to critically engage with a specialized and an advanced field of study within Media Studies. The topics, readings, and projects of the course to be determined by the instructor for any given term. Credit units: 3 ECTS Credit Units: 6. Spr (F. Ügen)

COMD 518  New Media and Film Cultures
Credit units: 3 ECTS Credit Units: 6.

COMD 523  Media and Everyday Life
There is a growing emphasis on practices and strategies of everyday life in the study of contemporary societies, identities and political movements. Media has become an integral part of our everyday lives, as the modern everyday is increasingly mediated by television, Internet, visual images, films, advertisements, newspapers, and so on. This course addresses the leading theoretical debates on everyday life and examines entanglements of ordinary people and various media from an anthropological perspective. Drawing on ethnographically informed, historically grounded and context-specific case studies, this course aims to explore how people use and make sense of media texts and communication technologies in their everyday lives. A particular focus of this course is the role of media in aesthetics and politics of the everyday. Credit units: 3 ECTS Credit Units: 7.5.

COMD 541  Writing for Media
This course introduces students to writing for various media. Methods of teaching involve creative brainstorming, concept selection, development, and refinement through writing workshops, as well as research projects and seminars on topics related to media writing. For their projects, students may focus on their area of interest such as writing fictional, documentary, or experimental film scripts, or writing for magazines, newspapers, or digital media. Credit units: 3 ECTS Credit Units: 7.5.

COMD 566  Documentary Form and Practice
Documentary has a long and rich tradition of theory and practice. Today digital technologies once again revitalize documentary productions. In this course students will be presented with an overview of central documentary issues. They will develop an understanding of the fundamental aesthetic tools of documentary production through lectures, screenings, exercises and individual short projects. Credit units: 3 ECTS Credit Units: 7.5. Spr (B. M. Çaplı)

COMD 590  Seminar in Research Topics
Credit units: None ECTS Credit Units: 6. Aut (A. Gürata) Spr (A. Gürata)

COMD 599  Master’s Thesis
Credit units: None ECTS Credit Units: 24. Aut (A. Gürata) Spr (A. Gürata)
DEPARTMENT OF FINE ARTS


Part-time: D. Kadioğlu.

The Fine Arts Department has a distinctive structure and curriculum that contrast with other art schools in Turkey. The Department offers a flexible program that unites studio practice and art theory, combining art disciplines such as painting, printmaking, sculpture, installation, and ceramics with courses in theory and criticism. The aim of the curriculum is to equip future artists with a capacity for studio work and an understanding of artistic production as well as the theoretical dimensions of art. The well-equipped etching, lithography, silk screen, ceramics, and sculpture studios offer students excellent opportunities to explore new horizons.

UNDERGRADUATE PROGRAM

The interdisciplinary program of the Department integrates theory and practice. The aim is to enhance the students in various fields of fine arts. The students are expected to go through the phases of research, recognition, experience, and production of original works of art. They are continuously encouraged to develop their own artistic and critical formation.

In the Program, students experiment with various fields of arts such as painting, printmaking, sculpture, ceramics, and multi-media and are encouraged to conceive and produce creative original works and modes of thought.

UNDERGRADUATE CURRICULUM

FIRST YEAR

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<th>Autumn Semester</th>
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<td>ENG 101</td>
<td>English and Composition I</td>
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<td>FA 103</td>
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<td>FA 105</td>
<td>Foundation Studio I</td>
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<td>FA 171</td>
<td>Introduction to Art and Culture I</td>
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<td>GE 100</td>
<td>Orientation</td>
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<td>FA 172</td>
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### THIRD YEAR

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### FOURTH YEAR

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### RESTRICTED ELECTIVES

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COURSE DESCRIPTIONS

FA 101 Basic Design I
Introduces basic design concepts of form, pattern, color, composition, texture, and shade, as well as the principles of two and three dimensional design without emphasizing function as a determinant. Problem solving skills in design are developed. Theories of design will also be introduced. Credit units: 6 ECTS Credit Units: 10. Aut (S. Altay, İ. Başa, A. Berk, G. Çulcuoğlu, G. Gasco, A. Küçük, B. Şenyapılı Özcan, S. Teber, S. E. Ural, S. Yılmazer) Spr (B. Şenyapılı Özcan)

FA 102 Basic Design II
Continues to explore the concepts introduced in FA 101. More emphasis is given to problems in three dimensional design. Function is introduced. Theories of design will be further discussed. Credit units: 6 ECTS Credit Units: 10. Prerequisite: FA 101. Spr (A. K. Ali, S. Altay, A. Berk, G. Çulcuoğlu, G. Gasco, M. Gürel, A. Küçük, S. Teber, S. E. Ural, S. Yılmazer)

FA 103 Drawing I
Exploration of the human figure, its parts and its form as far as structure and functions are concerned. Drawing fundamentals in figurative expression, proportions and compositional expressions by working directly from the model in various media. Credit units: 3 ECTS Credit Units: 4. Aut (C. Güner)

FA 104 Drawing II
Exploration of visual form, character and gesture of movements of the human figure. Searching, evaluating and applying the basic elements of life drawing: line, form, color, value, module and composition. Credit units: 3 ECTS Credit Units: 4. Prerequisite: FA 103. Spr (C. Güner)

FA 105 Foundation Studio I
This course introduces the basic elements and the principles of two-dimensional design. Students develop an understanding of the visual language while improving their abilities in abstract thinking and problem solving. Emphasis is placed on visual elements, their relationships and the organization principles such as order, unity, balance, emphasis, repetition, and variety. Credit units: 6 ECTS Credit Units: 10. Aut (F. Güner)

FA 106 Foundation Studio II
This course continues to explore the concepts introduced in Design Foundation I. While advancing the knowledge gained in the first semester, students are acquainted with new subjects such as texture, value and color through a series of design exercises and lectures. The working knowledge in two-dimensional design is integrated into three-dimensional design problems where students are introduced to spatial organization and concepts such as surface, volume, form, structure and function. Credit units: 6 ECTS Credit Units: 10. Spr (Staff)

FA 107 Drawing and Visual Expressions
This is a drawing based course that is designed to expand students’ ability to present themselves in the design environment. The purpose is to develop their ways of understanding the world around them and to improve their visual expressions. For this purpose instead of giving step-by-step instructions on purely technical aspects of drawing, a series of reading and exercises, and assignments are given. There will be also an introductory overview that connect the use of materials and different drawing methods. Manual drawing techniques will be used for all assignments. Credit units: 3 ECTS Credit Units: 4. Aut (K. Arapgirlioğlu, D. Kadioğlu, A. Strokosz, S. Teber, B. M. Zalewska-Sladczyk) Spr (D. Kadioğlu, S. Teber, B. M. Zalewska-Sladczyk)

FA 171 Introduction to Art and Culture I
Introduces concepts related to art and culture. A variety of topics such as painting, sculpture, drama, music, literature and architecture are discussed within a socioeconomic and political perspective; to give the student a general understanding of a particular time and place in history. Credit units: 3 ECTS Credit Units: 5. Aut (G. Çulcuoğlu, M. Öztürk, Ç. N. Saraç, F. Şenova Tunali, B. Şenyapılı Özcan, M. H. Yurdadoğan) Spr (M. Öztürk, Ç. N. Saraç)

FA 172 Introduction to Art and Culture II
Continues to develop an understanding of the relation of culture and philosophy to the arts and their effect on the creation of artistic activity and design through the analyses of the accumulated art work of human history. Credit units: 3 ECTS Credit Units: 5. Aut (Staff) Spr (G. Çulcuoğlu, Ç. N. Saraç, F. Şenova Tunali, M. H. Yurdadoğan)

GRA 324 Photographic Practice ......................................................... 3 / 6
GRA 353 Design: Image and Text I ............................................... 3 / 6
GRA 354 Design: Image and Text II ............................................... 3 / 6
GRA 421 Illustration I ................................................................. 3 / 6
GRA 422 Illustration II ................................................................. 3 / 6
LAUD 481 Landscape Ecology ...................................................... 3 / 5
FA 190  Summer Practice I
The aim of this summer practice is to give the students first hand experience in drawing sculpture, bust-relief etc. at archaeological museums. The minimum time for this practice is 6 weeks.  Credit units: None ECTS Credit Units: None.  Aut (E. Sağlam)

FA 201  Art Studio I
An introductory course on visual arts. Basic concepts and information on different fields such as painting, printmaking, sculpture, ceramics, etc. The possibilities of diverse media are introduced within the frame of studio studies.  Credit units: 6 ECTS Credit Units: 10.  Prerequisite: FA 102.  Aut (A. Strokosz)

FA 202  Art Studio II
A continuation of FA 201. Development of concepts towards the transformation of basic design criteria to artwork with contribution of fantasy and imagination.  Credit units: 6 ECTS Credit Units: 10.  Prerequisite: FA 201.  Spr (A. Strokosz)

FA 203  Drawing III
Study of the figure to improve drawing skills and knowledge. Fast sketching, figural expression, transformation, drawing materials and techniques.  Credit units: 3 ECTS Credit Units: 4.  Prerequisite: FA 104.  Aut (A. Özsalar)

FA 204  Drawing IV
Examining the human body in terms of form, color and color values. Studies leading to individual expression in model drawing based on the basic principles of art.  Credit units: 3 ECTS Credit Units: 4.  Prerequisite: FA 203.  Spr (A. Özsalar)

FA 207  Artistic Anatomy
Aim is to unveil the extraordinary construction of the human body and celebrate its continuing prominence in Art today. This course is designed for those who wish to gain the ability to catch the perfection of form and moves of human body in space by creating techniques and attitudes in observing and drawing the skeleton, head, ribcage, pelvis, hands and feet.  Credit units: 3 ECTS Credit Units: 6.  Aut (D. Kadroğlu)

FA 208  Anatomical Figure Drawing
The main objective of this course is to further the Artistic and Anatomical approach to figure drawing by critical interpretation and detailed study of the works of Renaissance Great Masters means of studio sessions.  Credit units: 3 ECTS Credit Units: 6.  Aut (B. M. Zalewiska-Sładczyk)

FA 211  Introduction to Painting I
Building basic technical skills. Experiments with the use of paint. Conceptual and practical experiments on color mixing. Examining the creative processes through these experiments.  (non-FA majors only).  Credit units: 3 ECTS Credit Units: 6.  Aut (B. M. Zalewiska-Sładczyk)

FA 212  Introduction to Painting II
Research on visual elements; form-color, structure, volume and composition. Relations between light, color and sight. Developing the skill of design, compositional capacity through working on certain projects.  (non-FA majors only).  Credit units: 3 ECTS Credit Units: 6.  Spr (B. M. Zalewiska-Sładczyk)

FA 213  Introduction to Printmaking I
The course aims to give basic techniques of printmaking with compositional and color values.  (non-FA majors only).  Credit units: 3 ECTS Credit Units: 6.  Aut (A. H. Misman)  Spr (A. H. Misman)

FA 215  Introduction to Sculpture I
An introductory studio course on the basic concepts, materials and processes of sculpture, with an emphasis on the understanding of perception and representation of three dimensional objects for students from other disciplines.  (non-FA majors only).  Credit units: 3 ECTS Credit Units: 6.  Aut (E. Sağlam)  Spr (E. Sağlam)

FA 217  Introduction to Ceramics I
Forming functional and three dimensional objects using basic ceramic techniques. White, red and colored clays are used. Techniques of colored clay combination are introduced. Creation of texture with an understanding of design principles is emphasized.  (non-FA majors only)  Credit units: 3 ECTS Credit Units: 6.  Aut (A. Özsalar)  Spr (A. Özsalar)

FA 219  Ancient Techniques and New Technology in Mosaic
This is an experimental course, combining the current techniques and the new technology in ceramics such as using ceramic colours on fired tiles. During the course the students will search for new ways of expression in colour. Using the clay as the Canvas.  Credit units: 3 ECTS Credit Units: 6.  Aut (A. Özsalar)  Spr (A. Özsalar)

FA 223  Visual Perception and Color
Examination of subjects such as psychology of visual perception, seeing the color and perception of color-form, concepts and theories of color.  Credit units: 3 ECTS Credit Units: 4.  Aut (A. Strokosz)  Spr (A. Strokosz)
FA 262 Fine Arts Seminar
Critical assessment of selected national and international artist's works and their ideas and approaches. **Credit units: 3 ECTS Credit Units: 4. Spr (E. Sağlam)**

FA 271 History of Art I
A chronological survey of the history of art from the Stone Age to the Byzantine World. **Credit units: 3 ECTS Credit Units: 5. Aut (Ç. N. Sarac)**

FA 272 History of Art II
A chronological survey of the history of art from the Early Medieval age to the Early Renaissance period. Comparative material from art of the non-western world, especially that of Anatolia, is also introduced. **Credit units: 3 ECTS Credit Units: 5. Spr (Ç. N. Sarac)**

FA 290 Summer Practice II
The aim of this summer practice is to give the students experience in copying from original works of art at various museums; to examine figure-sculpture relations within spaces; to practice and to study ceramics; to examine art collections. The minimum time for this practice is 6 weeks. **Credit units: None ECTS Credit Units: None. Aut (E. Sağlam)**

FA 301 Art Studio III
Studio work in one of the selected fields of fine arts such as painting, printmaking, sculpture, ceramics, etc. Students are expected to apply controlled experimentation on visual schemes. **Credit units: 6 ECTS Credit Units: 10, Prerequisite: FA 202. Aut (A. Özsalar)**

FA 302 Art Studio IV
Continuation of FA 301. With emphasis on the development of individual vision and personal expression. **Credit units: 6 ECTS Credit Units: 10, Prerequisite: FA 301. Spr (A. Özsalar)**

FA 304 Special Problems in Drawing
Studies of the human body concerning form, color and value. Exploration of individual expression by using models to build up thought and imagery. Contemporary figural expressions. **Credit units: 3 ECTS Credit Units: 4, Prerequisite: FA 204. Spr (A. Srokosz)**

FA 361 Philosophy of Art I
This course examines philosophical issues that arise concerning the creation, interpretation and viewing of art since Plato and Aristotle. Topics to be discussed include: what is “mimesis”¿; who is the best judge of art; is art beautiful and good; should art be viewed disinterestedly; what is it to get at the meaning of a work of art; how does technology affect the meaning and experience of art? **Credit units: 3 ECTS Credit Units: 6. Aut (A. Alemdaroğlu)**

FA 362 Philosophy of Art II
In this course, will be examined a number of ways that philosophy and modern art have come into dialogue with each other. These dialogues have taken many different forms: philosophers have written about artists and their works, and sometimes artists have appropriated the ideas of philosophers and created works that are inspired by their readings of philosophers. Within this matrix also is investigated what constitutes a work of art, artistic representation, the nature of aesthetic qualities, and the relevance of artist's intentions to the evaluation of works of art. **Credit units: 3 ECTS Credit Units: 6, Prerequisite: FA 361.**

FA 371 History of Art III
A chronological survey of the history of art from the Renaissance to the end of late Baroque and Rococo. Comparative material on the art of non-western lands, especially that of the Ottoman Empire is also discussed. **Credit units: 3 ECTS Credit Units: 4. Aut (D. S. Tezgör-Kassab)**

FA 372 History of Art IV
A chronological survey of the history of art from the French Revolution to the end of the twentieth century. Comparative material on the art of non-western lands, especially that of Anatolia and Turkey is also discussed. The course is designed as a Lab work, it consists of illustrated lectures, guest speakers, videos, film screenings, presentations by students and visits to Museums or Galleries. **Credit units: 3 ECTS Credit Units: 4. Spr (D. S. Tezgör-Kassab)**

FA 390 Summer Practice III
The aim of this summer practice is to give the students experience in making art in a studio or in a professional art environment. The minimum time for this practice is 6 weeks. **Credit units: None ECTS Credit Units: None. Aut (E. Sağlam)**
FA 401  Art Studio V
Studio work related to the student’s preference of thematic possibilities in the selected field of fine arts. The course focuses on the individual formative process. Credit units: 6 ECTS Credit Units: 10, Prerequisite: FA 302. Aut (E. Sağlam)

FA 402  Art Studio VI - Degree Project
Individual work geared to the completion of the degree program. The student is expected to come up with a coherent body of work in his/her field of concentration. This degree study reflects the student's personal direction and can be selected from one of the fields of painting, printmaking, sculpture, ceramic, multi-media (studio). Credit units: 9 ECTS Credit Units: 16, Prerequisite: FA 401. Spr (E. Sağlam)

FA 421  Analysis of Art Work I
This course aims to introduce students to critical analysis of works of art by concentrating on the theoretical debates developed around various issues on art theory since the 19th c. Also will be to put into question our understanding of art by traversing certain changes that have taken place in our perception of art and the world through various genres such as painting, photography, and cinema. Credit units: 3 ECTS Credit Units: 4. Aut (A. Alemdaroğlu)

FA 422  Analysis of Art Work II
Having dealt with the nature of painting, photography and cinema in the first part of this course, we shall be studying various postmodern approaches to art - such as semiotic, psychoanalytic, social and political approaches in order to foreground the impact of the postmodern theory on arts. What happens to the spectacle from the 1970’s on? How have the computers and multimedia changed our conception of art? Credit units: 3 ECTS Credit Units: 4, Prerequisite: FA 421. Spr (A. Alemdaroğlu)

FA 462  Senior Seminar
Students work together as critics and artists on projects that require collaboration and interdisciplinary dialogue. They discuss and experiment in finding alternative ways and language of communication with the public. Projects may be real or imaginary. Credit units: 3 ECTS Credit Units: 4. Spr (E. Sağlam)

FA 467  Curatorial Studies I
An introduction to the critical development of museum studies as an emerging academic discipline. The course will be a basis in the study of museum education and curatorship. Historical development of the art institutions and their relation to the society today is discussed and evaluated in an analytical and critical way of thinking. Credit units: 3 ECTS Credit Units: 6.

FA 473  Contemporary Turkish Art
Analysis of the general features of various movements in Modern Turkish Art. Painting, sculpture and ceramics in Turkey from the late nineteenth century to the present. Its evaluation in comparison with European and other modern art movements. Credit units: 3 ECTS Credit Units: 6. Aut (Ç. N. Saraç) Spr (Ç. N. Saraç)
DEPARTMENT OF GRAPHIC DESIGN


Part-time: A. Alemdaroğlu, Ç. Alpay.

Turkey, in recent years, has witnessed an explosion in advertising and communication that has resulted in the emergence of an aesthetic awareness in both the public and the private domain. There is a growing demand for well-educated designers in all aspects of visual design and communication.

The Department of Graphic Design strives to promote visual literacy, and the production of visual language to communicate messages through illustration, typography, photography, advertising, computer graphics, packaging, and contemporary media. To this aim, students are encouraged to utilize and experiment with contemporary production technologies.

The educational philosophy of the Department of Graphic Design is to question well-worn graphic trends, emphasize critical and theoretical thinking, and contribute innovative and individual proposals to the field.

UNDERGRADUATE PROGRAM

A broad based curriculum during the first year exposes students to fundamental art and language education as well as courses in Art History, Art and Culture and foundation studio art classes. The second year is made up of intensive studio classes in Visual Communications, Illustration, Typography, Photography, and Computer Graphics. The third year consists of more advanced topics aiming to increase students’ knowledge in design and awareness to contemporary design issues. A variety of elective courses are also offered beginning with the third year for students to improve themselves further in specific fields of visual design. In-depth theoretical courses such as Analysis of Artwork and Philosophy are offered in addition to a comprehensive array of electives which support and enhance the core curriculum. The fourth year aims to prepare students for professional practice. It encourages students to find their individual voice and approach in design which is finalized with a senior project and a graduation exhibition.

UNDERGRADUATE CURRICULUM

FIRST YEAR

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SECOND YEAR

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**Spring Semester Credits / ECTS Credits**

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<tr>
<td>GRA 202</td>
<td>Graphic Design II</td>
<td>6 / 8</td>
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<td>GRA 212</td>
<td>Typography II</td>
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<tr>
<td>GRA 219</td>
<td>Advanced Photography</td>
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<tr>
<td>GRA 226</td>
<td>Introduction to Visual Techniques II</td>
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**Autumn Semester Credits / ECTS Credits**

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<td>GRA 290</td>
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<td>GRA 301</td>
<td>Graphic Design III</td>
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<td>GRA 341</td>
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**Spring Semester Credits / ECTS Credits**

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<td>GRA 344</td>
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<td>GRA 347</td>
<td>Design Issues</td>
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**FOURTH YEAR Credits / ECTS Credits**

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<td>GRA 390</td>
<td>Summer Practice II</td>
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<td>GRA 401</td>
<td>Graphic Design V</td>
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<td>MAN 333</td>
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**Spring Semester Credits / ECTS Credits**

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<td>GRA 402</td>
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<td>GRA 423</td>
<td>Professional Practice</td>
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**RESTRICTED ELECTIVES**

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<tr>
<td>COMD 207</td>
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<td>COMD 361</td>
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<td>COMD 364</td>
<td>Video Production for Non-majors</td>
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<td>COMD 437</td>
<td>Post-production Techniques</td>
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<td>FA 213</td>
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<td>GRA 205</td>
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<td>GRA 208</td>
<td>Graphic Design Concepts</td>
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<td>GRA 210</td>
<td>Web Design</td>
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<td>GRA 215</td>
<td>Animation and Film/Television Graphics I</td>
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<td>GRA 216</td>
<td>Animation and Film/Television Graphics II</td>
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<td>GRA 217</td>
<td>Motion Graphics</td>
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<tr>
<td>GRA 313</td>
<td>Typographic Design and Theories</td>
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<td>GRA 315</td>
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MINOR PROGRAM

Graphic design deals with the creation of effective solutions to visual communication problems. It explores how to use visual language in an innovative way to convey specific messages to a target audience. The products of graphic design include advertisements, flyers, posters, book and magazine covers, editorials, packaging, logos, typefaces, websites, illustrations, animated characters, film credits, and more. The Department of Graphic Design at Bilkent University provides students with a well-equipped and thorough education which will make them proficient in the use of visual language, able to think critically and creatively, and capable of contributing innovative and individual proposals to the field.

The Minor Program in Graphic Design aims to introduce the dynamics of visual design to Bilkent students from different backgrounds. The program aims to lay the foundations in all stages of visual design from research to concept formation, image making to execution, and to endow students with the necessary skills of visual communication. The principle idea behind the program is that, like a second language, competence in visual language will add an extra dimension to students’ own field of practice and make them better equipped in a world where interdisciplinarity is a growing demand. The minor will also be of interest to those students intending to pursue a graduate degree in a design related field.

Students enrolled in any of the Bilkent faculties are eligible to apply, provided that they fulfill the application criteria set by the university. The minor program consists of six courses in total, of which five are mandatory. The mandatory courses are Drawing I, Graphic Design for Non-Majors, Typography I, Introduction to Visual Techniques I, and History of Graphic Art. Additionally, according to their fields of interest, students choose one additional course from the Graphic Design Minor Program electives list as shown below.

Prerequisite Courses: None

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<td>GRA 341</td>
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ELECTIVE COURSES

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<td>GRA 421</td>
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COURSE DESCRIPTIONS
UNDERGRADUATE COURSES

GRA 131  Design Tools and Techniques
This course aims to lay the foundations for the visualization tools and techniques used in graphic design. Drawing tools and materials including both traditional and digital media, drafting, study of 2-D and 3-D forms, basics of line drawing and representation will be among the subjects covered. Besides helping students acquire the necessary technical skills, the course aims to improve the ability in visual thinking and prepare students for more advanced studies in visual communication. Credit units: 3 ECTS Credit Units: 4. Aut (M. A. Kurttekin)

GRA 132  Lettering and Introduction to Typography
This course introduces students to history, evolution and principles of typography. Focusing on letterform drawings, it investigates the anatomy of letterform, typeface identification, and compositional hierarchy with typographic elements. Credit units: 3 ECTS Credit Units: 4. Spr (M. A. Kurttekin)

GRA 201  Graphic Design I
This studio course deals with visual thinking, color theory, gestalt principles, design techniques, concept development, and visualization of concepts in two and three dimensional design. Teaching methods include lectures, demonstrations, extensive studio work, and critiques. Students employ both analog media and digital media to create intelligent and powerful visual communication. Credit units: 6 ECTS Credit Units: 8, Prerequisite: FA 106. Aut (A. K. Pekalski)

GRA 202  Graphic Design II
This studio course enables students to develop their observation, imagination, creativity, visual sensitivity, and working knowledge of design elements by solving a series of visual communication problems with a variety of media and materials. Students extensively use computer as a tool to create, modify and present visual messages effectively. Credit units: 6 ECTS Credit Units: 8, Prerequisite: GRA 201. Spr (A. K. Pekalski)

GRA 205  Rendering for Graphic Design I
This course covers basic knowledge about illustration techniques and rendering using different materials, tools and media. Students are encouraged to experiment with various drawing and painting tools as well as with design software and combine them in order to develop their personal styles. Teaching methods include in-class demonstrations, class works, and long-term project assignments. Credit units: 3 ECTS Credit Units: 6.

GRA 206  Rendering for Graphic Design II
This course covers more advanced knowledge about illustration techniques. Students develop their illustration skills and techniques by using different tools of drawing, painting and design software. The course also includes in-class demonstrations of calligraphy and printing techniques. Credit units: 3 ECTS Credit Units: 6.

GRA 207  Conceptual Design
An investigation of the application of abstract concepts to concrete design products, i.e., packaging, advertising and printed material, as a vehicle to create specific moods and associations in design. Credit units: 3 ECTS Credit Units: 6.

GRA 208  Graphic Design Concepts
A seminar course with an emphasis on group based concept development to be implemented in everyday graphic design products, i.e., packaging, advertising and printed material. Credit units: 3 ECTS Credit Units: 6.

GRA 209  Graphic Design for Non-Majors
This course is for non-graphic design majors only. It provides students with a studio environment where they learn and practice elements, processes, and fundamentals of graphic design and how to communicate effectively with image and text in print and digital media. Credit units: 3 ECTS Credit Units: 6. Aut (A. K. Pekalski) Spr (A. K. Pekalski)

GRA 210  Web Design
This course introduces students to the World Wide Web tool and the stages of web design process. Among the topics covered are universal usability, information architecture, interface design, site and page structure, and typography rules to web, graphics and multimedia. Working with tools such as Image Editor, HTML Editor and Browser, students are expected to be able to develop a fully functional web project by themselves. Credit units: 3 ECTS Credit Units: 6. Aut (C. İ. Birand, M. A. Kurttekin) Spr (M. A. Kurttekin)

GRA 211  Typography I
Typographic design systems, the aesthetic functional and conceptual use of lettering for printing, typographic uses of various visual media and technical methods. Credit units: 3 ECTS Credit Units: 6, Prerequisite: GRA 132. Aut (F. Güner) Spr (F. Güner)
GRA 212 Typography II
The artistic and technical problems of typographic design, typographic layout techniques, letterform design, portfolio studies on logos and signs. Credit units: 3 ECTS Credit Units: 6, Prerequisite: GRA 211. Spr (F. Güner)

GRA 215 Animation and Film/Television Graphics I
Main principles of visual images and movement. Making images move. Continuity, lighting, filming and linking. Credit units: 3 ECTS Credit Units: 6. Aut (Ç. Alpay)

GRA 216 Animation and Film/Television Graphics II
Methods of animation, preparation of sketch board and storyboard. Studies with application of various graphic elements in motion. Credit units: 3 ECTS Credit Units: 6. Spr (Ç. Alpay)

GRA 217 Motion Graphics
This course introduces students to time-based graphics through animation. The focus of the course will be on developing a beginner-to-intermediate vector and bitmap animation for film, animation, video, digital media, and the web delivery and related presentation applications. Students will learn to design effective timeline sequences incorporating vector-drawing techniques, tweening, frame-by-frame animation procedures, bitmap imagery, typographic techniques and basic scripting. Design theory for interactive media is coupled with hands-on experience for creating visually rich animations, broadcast and presentations. This course is intended for students who desire intermediate-level study in animation and time-based motion graphics. Credit units: 3 ECTS Credit Units: 6. Aut (E. Kılıç) Spr (E. Kılıç)

GRA 218 Essentials of Photography
This course introduces students to basic principles and techniques of photography. It also covers dark room techniques and processes. Credit units: 3 ECTS Credit Units: 6. Aut (M. Gürzüm)
creative thinking; refine their use of visual language to a more sophisticated level; and find ways to develop their own personal voice. Credit units: 6 ECTS Credit Units: 8. Prerequisite: GRA 301. Spr (F. Gürer)

**GRA 313 Typographic Design and Theories**

Typographic Design and Theories is a course which aims to promote students’ practice and knowledge in the field of typography, thus instill an awareness in the dynamics and the creative potential of this discipline. Serving as a studio course. Typographic Design and Theories concentrates on typography based projects assisted by visual lectures and theoretical discussions, and it encourages students to explore new forms of visual expressions by using the typographical grammar. Credit units: 3 ECTS Credit Units: 6. Aut (C. İ. Birand)

**GRA 315 Information Design and Data Visualization**

This course focuses on expanding students’ understanding of how graphic design can become an effective tool for organizing and presenting complex data and information. Students will learn about universal principles of analytical thinking and use them to produce effective data visualizations. They will be exposed to the idea that the practices of successful evidence display deal with Gestalt psychology, cognitive science, visual perception, linguistics and empathy. Like algebra, the principles of information design are universal; the success of an analytical design display is tied to its ability to cross cultures, languages, styles, genders, even centuries. Throughout the semester, students will complete four projects that require a holistic approach; tools of graphic design (form, shape, color, typography, layout) will be handled in conjunction with tools of visual psychology (Gestalt, cognitive science, perception). They will research, observe, collect, analyze and interpret different data sets and design visual presentations to make the information easier to dissect for different types of audiences. Credit units: 3 ECTS Credit Units: 6. Spr (C. İ. Birand)

**GRA 323 Logos, Symbols and Signs**

The purpose of this course is to explore the languages and functions of logos, symbols and sign systems in visual communication. Projects will examine social and cultural context of visual codes in relation to designed works. Various applications on different media will be studied to create alternative and new design solutions. Credit units: 3 ECTS Credit Units: 6. Aut (F. Gürer)

**GRA 324 Photographic Practice**

This course is for non-majors only. An introductory course in the techniques of photography. Taking photographs: Interior/exterior, information about composition, film developing and basic laboratory practices. Credit units: 3 ECTS Credit Units: 6. Aut (M. Gürzumar) Spr (M. Gürzumar)

**GRA 333 Packaging I**

Projects on various subjects of publication graphics. Methods of realizing these projects with various graphics media. Use of airbrush and reproduction camera. Credit units: 3 ECTS Credit Units: 6. Aut (C. Gürer)

**GRA 334 Packaging II**

Realization and preparation of graphics projects on mass communication media. Credit units: 3 ECTS Credit Units: 6. Sp (C. Gürer)

**GRA 341 History of Graphic Art**

This course examines the evolution of graphic design from prehistoric times to current times. It explores various graphic styles, movements, and works of pioneering designers as well as the technological, social, and cultural contexts that have shaped them. Credit units: 3 ECTS Credit Units: 6. Aut (C. İ. Birand) Spr (Staff)

**GRA 344 Psychology of Advertisement**

An introduction to the psychological aspects of the current consumer market. Its relation to cultural and sociological phenomena as an aid in determining an effective policy in advertising. Credit units: 3 ECTS Credit Units: 4. Spr (E. Kilic)

**GRA 347 Design Issues**

The goal of this multi-disciplinary course is to provide students with conceptual tools that will help them analyze, interpret and criticize the way design communicates meanings. Exposing students to a variety of theories, topics and concepts borrowed from various disciplines, the course explores how messages are constructed and perceived in design communication. Credit units: 3 ECTS Credit Units: 6. Spr (C. İ. Birand)

**GRA 353 Design: Image and Text I**

The nature of “image” will be discussed from various points of view. Specific and cultural codes involved in designing and understanding an image, communicative processes. Psychoanalytical approaches to the subject matter will also be examined. Credit units: 3 ECTS Credit Units: 6.

**GRA 354 Design: Image and Text II**

The text and image relationship. Discursive analysis of text and image. Narrative forms, i.e. novel, theatre, film, etc. Adaptations. Written text as a “sign” of image. Bridging text and image: scriptwriting. Students will be expected to write screenplays of various forms. Credit units: 3 ECTS Credit Units: 6.
GRA 390  
**Summer Practice II**
The aim of this summer practice is to give the student experience in the organization and working of an advertising agency/graphic design studio/photographic studio. The minimum time for the practice is 4 weeks. **Credit units: None ECTS Credit Units: None. Aut (C. Güner) Spr (C. Güner)**

GRA 401  
**Graphic Design V**
This studio course enables students to apply their accumulated knowledge and skills to graphic design projects at an advanced level. The course aims to define the complex intersection between personal voice, conceptual understanding and the ability to make and use research effectively in order to create meaningful, visually appealing and well crafted design products. Students are expected to follow the design process defined by the instructors for every project, involving research, concept development, sketching, visualization and presentation. **Credit units: 6 ECTS Credit Units: 8. Prerequisite: GRA 302. Aut (M. Brzozowski)**

GRA 402  
**Graphic Design VI**
In this course students focus on their graduation project. The course guides the students to develop and execute a professional long-term graphic design and visual communication project of their choice that includes various different items and media. The final outcome is expected to affirm that the student is able to think critically and s/he is capable of proposing innovative and individual contributions to the field. The course is finalized with a senior project exhibition. **Credit units: 8 ECTS Credit Units: 14. Prerequisite: GRA 401. Aut (M. Brzozowski)**

GRA 421  
**Illustration I**
Ways of interpreting a subject through pictures. Black and white and color illustrations. Interpretation of graphic subjects through pictures. **Credit units: 3 ECTS Credit Units: 6. Aut (A. K. Pekalski)**

GRA 422  
**Illustration II**

GRA 423  
**Professional Practice**
This course is intended to prepare fourth-year students to professional graphic design career. Among the topics covered are working fields of graphic design, the design firm, design market in Turkey, design ethics, copyright and licensing, presentation of the design work, and preparing a resume and portfolio. Students will be encouraged to research and present certain topics of the course, whereas some topics will be discussed by the instructor or by an invited guest from the relevant field. Each student will also be responsible for preparation and submission of their own portfolios at the end of the semester. **Credit units: 3 ECTS Credit Units: 6. Spr (E. Kilic)**

**GRADUATE COURSES**

GRA 501  
**Graduate Studio I**
Graduate Studio I examines and practices with visual communication and design problems within the framework of contemporary culture. It emphasizes a critical approach to existing solutions and encourages students to develop fresh perspectives through new concepts, alternative forms and relations parallel with the changing dynamics of the society. The students will be expected to exercise their own observations and interpretations around suggested topics and to communicate their concepts in design language with their desired media. The topics will cover real-life and/or fictional design scenarios and aim to motivate research, conceptual and visual experimentation, and a sophisticated integration of form and content towards a design solution. **Credit units: 3 ECTS Credit Units: 7.5. Aut (M. Brzozowski)**

GRA 502  
**Graduate Studio II**
This course allows students to produce a media project in any fictional or semi-fictional time-and-motion-based medium or form. From traditional dramas or comedies to experimental, animated, or interactive projects or multimedia installations, students will carefully develop and design their own media concept and bring it to fruition, culminating in an exhibition at the end of term. The emphasis of the course will be on form expressing function. **Credit units: 3 ECTS Credit Units: 7.5. Spr (E. Kilic)**

GRA 503  
**Illustration I**
Illustration is creating and using pictures to communicate a subject. This course aims to educate illustrator-artists for various fields of visual communication. Studies of different techniques and media; character generation; illustration for children's literature, fiction, and technical books as well as artistic illustration will be among the topics which will be determined depending on the students' talents and interests. **Credit units: 3 ECTS Credit Units: 7.5. Spr (M. Brzozowski)**

GRA 504  
**Illustration II**
This course aims to enable students to carry out studies with wide practical applications of any field of illustration. From editorial to literary; commercial to technical illustrations different areas will be covered with an emphasis on developing individual methods. **Credit units: 3 ECTS Credit Units: 7.5.**

GRA 511  
**Typography I**
Typography is a means to make the written language visible. This class focuses on the issues of typographic form -readability, syntax, expression; typographic communication; image-type relationships; and the historical components in relation to technology and contemporary trends. The class will consist of lectures, critiques,
research assignments and studio work which will aim the exploration of the typographic vocabulary, rethinking of the conventions, experimentation with new ideas and forms, and consequently the refinement of the typographic knowledge and skills. Credit units: 3 ECTS Credit Units: 7.5.

GRA 517 Image Time and Motion I
Through digital technology, our moving image culture is being redefined. The computer enables the mixture of images captured through many different means (cinema, stills, and drawings), and enables new levels of representation. Video gave the birth to simultaneity; the computer extends simultaneity to multiplicity. “Cinema becomes therefore a particular branch of painting - painting in time. No longer a kino-eye, but a kino-brush.” Will this shift through technology change the way we organize time and space to create forms of narrative, or are we developing new kinds of vertical narratives? This course will engage students to make meaningful generalizations for interpreting or evaluating local experiences and practices in digital media, art and communication. Credit units: 3 ECTS Credit Units: 7.5. Aut (E. Ocak)

GRA 518 Image Time and Motion II
A continuation from “Image, Time and Motion I.” The course is an extended attempt to think about popular developments of time-based media in digital environments. The focus as on the critical discourse created through the works of digital artisans, net.artists and cyber entrepreneurs as well as the theoretical and analytical localization of current trends. Credit units: 3 ECTS Credit Units: 7.5. Spr (E. Ocak)

GRA 519 Critical Approaches to Advertising Consumer Culture
This course introduces students to the critical scholarship on advertising and the economic, social, and cultural context in which modern advertising has emerged, a context often called “consumerism” or “consumer culture.” While some emphasis is placed on the semiotics of advertising, more is placed on the ways in which advertising has become a crucial component in the “complex whole” of contemporary culture both informing and informed by that culture. Significant attention is thus given to the historical development of modern advertising; to the cultural/ideological power of advertising, with regard to both form and content; and to the implications of the material/economic power of advertising as an industry that supports other cultural industries and forms. Credit units: 3 ECTS Credit Units: 7.5. Aut (Ö. Savas)

GRA 521 Animation I
Contemporary techniques for animated cartoons, movie and TV titles with emphasis on animation with computer imaging techniques, and the aesthetic issues of the medium and its relation to traditional visual arts and film. Credit units: 3 ECTS Credit Units: 7.5. Aut (E. Kılçık)

GRA 541 Graphic and Visual Representation
The aim of this course is to make the students familiar with both conventional and recent theories, issues, and debates in the fields of graphic and visual arts. The course will begin with a discussion of the “origins” of graphic and pictorial representation in early human cultures. Then, the notion of “representation” with a special emphasis on its aesthetic and visual aspects will be examined. The course will particularly focus on the relations between perception, image, language and subjectivity, and will examine several theories of visuality and image such as semiotics, psychoanalysis and postmodern approaches. Credit units: 3 ECTS Credit Units: 7.5.

GRA 542 Mass Media and Visual Technologies
This course aims to present the recent developments in the field of visual media and technologies. It begins with an overview of the transformation of vision since Renaissance and examines the specificity of modern mass media as social institution and visual technology. Several theories of media and approaches to technology are discussed and a particular emphasis is given to recent technologies such as television, computers and virtual reality as well as urban space as a visual and technological environment. Credit units: 3 ECTS Credit Units: 7.5.

GRA 558 Visual Communication Approach to Artistic Thinking
This course focuses on the process of artistic thinking and creation understood in terms of visual communication and visual arts. The ways in which artistic thinking is shaped at the perceptual, conceptual and semiotic level of processing information will be explored. At the conceptual and semiotic levels the focus will be on the ways in which social, political and cultural factors generate patterns of visual communication. Examples from graphic art, painting, sculpture and architecture will be analyzed. The course will have a seminar format, combining lectures with student research on specific topics, which will be presented in class and discussed. The student presentation will be developed into term papers. Credit units: 3 ECTS Credit Units: 7.5.

GRA 590 Seminar in Research Topics
Credit units: None ECTS Credit Units: None. Aut (Staff) Spr (Staff)

GRA 599 Master’s Thesis
Credit units: None ECTS Credit Units: 24. Aut (Staff) Spr (Staff)
DEPARTMENT OF INTERIOR ARCHITECTURE AND ENVIRONMENTAL DESIGN


The curriculum combines the arts with technical and scientific studies in order to give students a well-rounded education. As the department is cognizant of modern trends in interior architecture and the implications of new technologies, it aims at providing a balanced education between the artistic, technological and humane aspects of the profession.

UNDERGRADUATE PROGRAM

The curriculum is organized around studios which prepare the novice designer to deal progressively with larger and more complex interiors and greater technical detail. The studios enable students to synthesize knowledge from parallel courses in history, art, technology, drawing and principles of design. The first two years are intended to develop an understanding of different concepts of design in form, material, space, composition, and introduce the fundamentals of total interior space planning and design. The third and fourth years provide the opportunity to specialize in different interest areas such as: computers, new materials and technologies, humanities, social sciences, safety, special needs of the handicapped, and elderly etc. Digital Media (Computers) is also integrated into different levels of education.

UNDERGRADUATE CURRICULUM

FIRST YEAR

<table>
<thead>
<tr>
<th>Autumn Semester</th>
<th>Credits / ECTS Credits</th>
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<tbody>
<tr>
<td>ADA 131 Architectural Drawing</td>
<td>3 / 4</td>
</tr>
<tr>
<td>ENG 101 English and Composition I</td>
<td>3 / 6</td>
</tr>
<tr>
<td>FA 101 Basic Design I</td>
<td>6 / 10</td>
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<tr>
<td>FA 107 Drawing and Visual Expressions</td>
<td>3 / 4</td>
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<tr>
<td>FA 171 Introduction to Art and Culture I</td>
<td>3 / 5</td>
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<tr>
<td>GE 100 Orientation</td>
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<tr>
<td>TURK 101 Turkish I</td>
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<thead>
<tr>
<th>Spring Semester</th>
<th>Credits / ECTS Credits</th>
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</thead>
<tbody>
<tr>
<td>ADA 134 Designing with Digital Media</td>
<td>3 / 4</td>
</tr>
<tr>
<td>ENG 102 English and Composition II</td>
<td>3 / 6</td>
</tr>
<tr>
<td>FA 102 Basic Design II</td>
<td>6 / 10</td>
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<tr>
<td>FA 172 Introduction to Art and Culture II</td>
<td>3 / 5</td>
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<tr>
<td>TURK 102 Turkish II</td>
<td>2 / 1</td>
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</table>

SECOND YEAR

<table>
<thead>
<tr>
<th>Autumn Semester</th>
<th>Credits / ECTS Credits</th>
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<tbody>
<tr>
<td>ADA 201 Collaborative Design Studio I</td>
<td>6 / 10</td>
</tr>
<tr>
<td>ADA 263 History of Built Environment I</td>
<td>3 / 5</td>
</tr>
<tr>
<td>GE 250 Collegiate Activities Program I</td>
<td>- / 1</td>
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<tr>
<td>HIST 200 History of Turkey</td>
<td>4 / -</td>
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<tr>
<td>IAED 211 Media for Representation</td>
<td>3 / 5</td>
</tr>
<tr>
<td>IAED 251 Construction and Materials I</td>
<td>4 / 6</td>
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<tr>
<th>Spring Semester</th>
<th>Credits / ECTS Credits</th>
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<tbody>
<tr>
<td>ADA 264 History of Built Environment II</td>
<td>3 / 5</td>
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<tr>
<td>GE 251 Collegiate Activities Program II</td>
<td>1 / 2</td>
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</table>
IAED 202 Interior Design Studio II ................................................................. 6 / 10
IAED 221 Human Factors ............................................................................ 3 / 4
IAED 244 Lighting Design ........................................................... 3 / 4
IAED 252 Construction and Materials II ........................................... 4 / 6

THIRD YEAR

Autumn Semester

IAED 290 Summer Practice I ........................................................................ - / -
IAED 301 Interior Design Studio III .................................................. 6 / 10
IAED 341 Architectural Acoustics and Fire Safety ........................................... 3 / 5
IAED 351 Detailing Studio ....................................................................... 3 / 4
IAED 463 History of Furniture .................................................................. 3 / 5
Elective ........................................................................................................ 3 / 6

Spring Semester

IAED 302 Interior Design Studio IV .................................................. 6 / 10
IAED 322 People and Environment ............................................................. 3 / 5
IAED 342 Sustainable Design for Interiors ..................................................... 3 / 5
IAED 381 Product Detailing ....................................................................... 3 / 4
Elective ........................................................................................................ 3 / 6

FOURTH YEAR

Autumn Semester

IAED 390 Summer Practice II ...................................................................... - / -
IAED 401 Interior Design Studio V .......................................................... 6 / 14
IAED 415 Advanced Detailing Studio ....................................................... 3 / 4
Elective ........................................................................................................ 3 / 6
Restricted Elective ..................................................................................... 3 / 6

Spring Semester

IAED 402 Interior Design Studio VI .................................................. 6 / 14
IAED 418 Interior Design: Professional Practice .............................................. 3 / 4
Elective ........................................................................................................ 3 / 6
Restricted Elective ..................................................................................... 3 / 6

RESTRICTED ELECTIVES

IAED 315 Computerized Presentation Techniques .................................... 3 / 6
IAED 316 Computer Applications ............................................................... 3 / 6
IAED 365 Places/Memories ....................................................................... 3 / 6
IAED 391 Special Topics in Interior Design I .............................................. 3 / 6
IAED 392 Special Topics in Interior Design II .............................................. 3 / 6
IAED 393 Visionary and Future Environments ............................................ 3 / 6
IAED 394 TV Set Design ........................................................................ 3 / 6
IAED 396 Architectural Photography .......................................................... 3 / 6
IAED 397 Color Theory and Applications .................................................... 3 / 6
IAED 424 Experience of Space and Place ................................................... 3 / 6
IAED 426 Leisure Practices and Spaces ...................................................... 3 / 6
IAED 461 Environmental Management and Sustainable Development ............. 3 / 6
IAED 462 Contemporary Architecture ........................................................ 3 / 6
IAED 464 Issues and Themes in Industrial Design ........................................ 3 / -
IAED 471 Interior Analysis Systems ............................................................ 3 / 6
IAED 485 Design Methodology ................................................................. 3 / 6
IAED 491 Current Issues in Interior Design I .............................................. 3 / 6
IAED 492 Current Issues in Interior Design II ............................................ 3 / 6
IAED 495 Public Interiors ............................................................................ 3 / 6

GRADUATE PROGRAM

The Department of Interior Architecture and Environmental Design offers M.F.A. program with the possibility of specialization in building science, history, theory and criticism, design theories and
methods, and environmental psychology. Students are guided through an intensive program that emphasizes scholarly inquiry, research skills, analysis and constructive criticism. The curriculum provides an interdisciplinary outlook, incorporating knowledge from related disciplines. The graduate studio combines theory and application. The elective courses are chosen through consultation with an academic advisor.

Master of Fine Arts in Interior Architecture and Environmental Design

Admission: Applicants are required to have a Bachelor's degree in a relevant field of design. In addition to the general requirements set forth by the university, admittance to the program is through an interview as well as a portfolio evaluation. The portfolio should represent work done during undergraduate years and contain those pieces of work the applicants consider their best efforts. All students are expected to be fluent in written and oral English in order to be admitted to the program.

Degree Requirements: After the completion of at least 24 units of course work in two successive terms, the candidates must take two seminar courses in their area of interest and prepare and submit a thesis. The duration of the program is four semesters.

CURRICULUM OF MASTERS PROGRAM

<table>
<thead>
<tr>
<th>Courses</th>
<th>Credits / ECTS Credits</th>
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<tbody>
<tr>
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<td>Academic Practices</td>
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<td>Graduate Studio I</td>
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<td>IAE 502</td>
<td>Graduate Studio II</td>
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<td>IAE 511</td>
<td>Research Methods I</td>
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<td>IAE 590</td>
<td>Seminar in Research Topics</td>
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<td>IAE 599</td>
<td>Master's Thesis</td>
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<td>RESTRICTED ELECTIVES</td>
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<td>IAE 512</td>
<td>Statistical Analysis</td>
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<td>IAE 514</td>
<td>Research Methods II</td>
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<td>Environmental Analysis I</td>
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<td>IAE 544</td>
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<td>IAE 561</td>
<td>History of Theory and Criticism</td>
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<td>IAE 571</td>
<td>Lighting and Color</td>
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<td>Art, Science and Technology</td>
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<td>IAE 583</td>
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<td>Contemporary Design Theories and Themes</td>
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<tr>
<td>IAE 585</td>
<td>Design Requirements</td>
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</tbody>
</table>

COURSE DESCRIPTIONS

UNDERGRADUATE COURSES

IAED 202  Interior Design Studio II
Basic concepts and design methods for residential interiors and structures. Individual and group needs in relation to personal, family and institutional living. Credit units: 6 ECTS Credit Units: 10. Prerequisite: ADA 201 or IAED 201. Spr (Y. Alakan, H. Demirkan, Ç. İmamoğlu, S. Özoğlu, E. E. Türkkan)

IAED 211  Media for Representation
"Computer Aided Design" provides an introduction to 3D-modeling. Although surface and solid modeling is the main topic of this course, color, texture, material and light will also be covered. Credit units: 3 ECTS Credit Units: 5. Prerequisite: ADA 134 or IAED 112. Aut (T. Sonkan Türkkan) Spr (T. Sonkan Türkkan)

IAED 221  Human Factors
Investigation of human factors and dimensions as a determinant in the design of interior environments. Credit units: 3 ECTS Credit Units: 4. Aut (B. Altay) Spr (B. Altay)
IAED 244 Lighting Design
Introduces principles of lighting and different lighting techniques. Initiates colour and lighting design utilizing both natural and artificial light sources. **Credit units: 3 ECTS Credit Units: 4. Spr (N. Olguntürk, S. E. Ural)**

IAED 251 Construction and Materials I
Introduction to the basic elements and components of structural members of buildings as well as furniture; surveying skills; production of construction drawings. **Credit units: 4 ECTS Credit Units: 6. Prerequisite: ADA 131 or FA 132. Aut (M. T. Gürsu, N. Y. Savut) Spr (N. Y. Savut)**

IAED 252 Construction and Materials II
Investigation of the behavior and properties of basic groups of building materials; focus on sustainability; production of construction drawings. **Credit units: 4 ECTS Credit Units: 6. Prerequisite: IAED 251. Spr (N. Ş. Aybar, M. T. Kayasu)**

IAED 290 Summer Practice I
The aim of this summer training is to give the student experience on site and/or in production techniques. The minimum time for this practice is 4 weeks. **Credit units: None ECTS Credit Units: None. Aut (N. Olguntürk) Spr (T. Sonkan Türkkan)**

IAED 301 Interior Design Studio III
Special consideration is given to public interiors and hospitality design. Course objectives include developing an understanding of spatial design for humane working and living environments, inclusive design, interior detailing and documentation, and building systems and components. **Credit units: 6 ECTS Credit Units: 10. Prerequisite: IAED 202. Aut (F. Ataylar, M. Özdamar, M. Öztürk, Ş. Taşkı Pektaş, İ. Topçu Bilgiç, T. Yardımcı)**

IAED 302 Interior Design Studio IV
Special consideration is given to public interiors and healthcare design. Course objectives include developing an understanding of healthcare issues, service, accommodation and care facilities, cultural relationships, handicapped requirements, building safety and spatial comfort. **Credit units: 6 ECTS Credit Units: 10. Prerequisite: IAED 301. Spr (M. T. Kayasü, M. Özdamar, M. Öztürk, Ş. Taşkı Pektaş)**

IAED 316 Computer Applications
Computer-aided design applications; comparative and operative analyses of design related software packages; advanced techniques in generating computer aided design presentations, simulations and virtual design applications. **Credit units: 3 ECTS Credit Units: 6.**

IAED 341 Architectural Acoustics and Fire Safety
Acoustics, noise control and fire prevention in buildings. **Credit units: 3 ECTS Credit Units: 5. Aut (Z. Sü Gül, S. Yılmazer)**

IAED 342 Sustainable Design for Interiors
Creation of a basic understanding of issues related to sustainable design with an emphasis on thermal comfort and indoor air quality. Issues related to mechanical and electrical equipment and services in buildings will also be covered. **Credit units: 3 ECTS Credit Units: 5. Spr (Y. Afacan)**

IAED 351 Detailing Studio
An overall assessment of the knowledge of building construction and material science is sought with emphasis on conceptual and detail drawings related to interior architecture problems. **Credit units: 3 ECTS Credit Units: 4. Prerequisite: IAED 252. Aut (M. Özdamar, S. Sak)**

IAED 365 Places/Memories
The course approaches histories and identities of places in the contexts of precedence/obsolescence/continuance. Memory here refers to traditions, origins and roots. Place relates to sites of remembering/forgetting, fragments and traces of the past either appearing or disappearing in the present environment constitute the basic upon which the themes of temporality and spatiality will be discussed. Selected readings on the city, on history and memory will be used to analyze different aspects of the subject. **Credit units: 3 ECTS Credit Units: 6.**

IAED 381 Product Detailing
Detailing problems of products such as the detailing of furniture, cabinetry, upholstery, fixtures, etc. Problems related to the nature of materials and production methods. **Credit units: 3 ECTS Credit Units: 4. Prerequisite: IAED 351. Spr (S. Altay)**

IAED 390 Summer Practice II
The aim of this summer practice is to give the student experience in the organization and working of an architecture/interior architecture/design office. The student is expected to make observations on the project developing order, project application and designer/client relationships in a private or institutional design office. The minimum time for this practice is 4 weeks. **Credit units: None ECTS Credit Units: None. Aut (N. Olguntürk) Spr (T. Sonkan Türkkan)**
IAED 391  Special Topics in Interior Design I
An investigation and research in depth of a topic related to interior design. A course that encourages the student's self conduct and research capabilities in theoretical issues to justify proposed design solutions. Credit units: 3
ECTS Credit Units: 6. Aut (B. Egel) Spr (Staff)

IAED 392  Special Topics in Interior Design II
A specialized course designed to deliver topics of special interest for the students. The course aims at taking advantage of expertise within the faculty and possibly invited guest lecturers. Credit units: 3 ECTS Credit Units:
6. Aut (N. Y. Savut) Spr (N. Y. Savut)

IAED 393  Visionary and Future Environments
A global perspective and investigation of the means to conceptualize, plan, and design visionary and futuristic environments will be researched. Futuristic technology, fantasy, illusionistic, and utopian environments will be explored with an emphasis on innovative, alternative, and divergent conceptual problem-solving. Credit units: 3
ECTS Credit Units: 6.

IAED 394  TV Set Design
The aim is to teach the basic principles of TV set design. A term project is assigned to each student that is supported by a series of lectures. The term project covers each phase of design process starting from planning to model making. Developing conceptual alternatives, concept boards, use of material, choice of finishings, use of camera and light are the basic issues that are emphasized within the course. Credit units: 3
ECTS Credit Units: 6. Aut (Staff) Spr (Staff)

IAED 396  Architectural Photography
The aim of the course is to develop critical understanding of photography and how it can be used as a tool for analyzing and documenting architecture. The course covers the basics of architectural photography and enables the students to develop skills in using digital photography as a medium to convert design ideas into visual forms. Credit units:
3 ECTS Credit Units: 6.

IAED 397  Color Theory and Applications
Titles such as color theories and systems; color vision and perception; color interactions; symbolic color and preferences; spatial perception and color illusion are discussed within the scope of architectural applications. Credit units:
3 ECTS Credit Units: 6. Spr (S. Ural)

IAED 401  Interior Design Studio V
This course aims to develop proficiency of the students in designing and presenting refined interior architecture projects for complex and large spaces in relation to more confined subspaces and objects. Many aspects of interior design are covered such as achieving integrity with regards to interior and exterior organizations and design components, understanding and integrating building systems, and considering social, cultural, regulatory and environmental issues in design. Credit units: 6 ECTS Credit Units: 14, Prerequisite: ADA 302 and IAED 302. Aut (B. Altay, H. Bassler, T. Sonkan Türkkan, B. Tanverdi, M. H. Yurdadoğan, N. Zutshi)

IAED 402  Interior Design Studio VI
This course aims to develop proficiency of the students in designing and presenting refined interior architecture projects for complex and large spaces in relation to more confined subspaces and objects. In addition to the consolidation of the issues covered in IAED 401, special emphasis is given to sustainable design. Credit units: 6 ECTS Credit Units: 14, Prerequisite: IAED 401. Spr (B. Altay, N. Ş. Aybar, H. Bassler, T. Sonkan Türkkan, M. H. Yurdadoğan)

IAED 415  Advanced Detailing Studio
Systems research for the interior environment: furniture technology and materials. Students will be required to complete a project at the working drawing level. Credit units: 3 ECTS Credit Units: 4, Prerequisite: IAED 351. Aut (S. Altay)

IAED 418  Interior Design: Professional Practice
Information on the administration of a major interior design project is given. Client and trade relations, codes, government and legal requirements are emphasized. Credit units: 3 ECTS Credit Units: 4. Spr (M. Özdamar)

IAED 424  Experience of Space and Place
Human experience of spaces and places are explored through psycho-spatial approaches. Spatial factors which influence human perception and resultant behavior at both the individual and societal level are discussed. Credit units: 3 ECTS Credit Units: 6.

IAED 461  Environmental Management and Sustainable Development
The course aims to engender an awareness of how our relationship with the environment is managed. The course introduces systems and techniques (e.g. sustainability indicators, life-cycle analysis) that are vital for sustainable practices. Innovative system thinking for sustainable development and practice skills for environment management will be introduced to gain an understanding of human-environment relations. Students will learn about systems and decision making process to expand their knowledge on economic and organizational
dimensions of environmental decisions. Through series of lectures, students will develop their ability to analyse a range of complex environmental management situations and their relationships with sustainable development. Credit units: 3 ECTS Credit Units: 6. Spr (Staff)

**IAED 463 History of Furniture**
A course dealing with historical evolution of furniture within a chronological spectrum. Students are asked to prepare portfolios and give seminar presentations. Credit units: 3 ECTS Credit Units: 5. Aut (E. E. Türkkan) Spr (E. E. Türkkan)

**IAED 464 Issues and Themes in Industrial Design**
The aim of the course is to raise awareness on the profession of industrial design through a series of lectures, presentations and design practices. The course encourages student's self conduct and research capabilities in theoretical issues to justify proposed design solutions. The course will be executed in parallel platforms. There will be series of lectures related with the emergence and scope of industrial design as a profession, the position of industrial design today, design and culture in the 21st century and some contemporary discussions on design. As a parallel session there will be presentations by students related with the topics discussed. The semester will be concluded with a design solution to an innovative design problem. Credit units: 3 ECTS Credit Units: None. Spr (E. E. Türkkan)

**IAED 491 Current Issues in Interior Design I**
Investigating existing innovative planning, design issues in interior design to give more insight to the students for the development of their design skills. Credit units: 3 ECTS Credit Units: 6. Aut (N. Olguntürk)

**IAED 492 Current Issues in Interior Design II**
Introduction to specialized issues related to contemporary techniques and materials in differing complexity and combinations for special interior design problem solving. Credit units: 3 ECTS Credit Units: 6. Aut (F. Ataylar)

**IAED 495 Public Interiors**
Introduction to issues pertaining to image formation and public functions of cultural and business interiors as evaluation and design sources. The course work is based on study of current approaches to design through analysis of projects, realizations and experienced spaces, as well as readings and discussions of essential topics. Credit units: 3 ECTS Credit Units: 6.

**GRADUATE COURSES**

**IAED 501 Graduate Studio I**
An emphasis is placed on improving research skills, analysis, discussion, and a theoretical approach to spatial design. Students are expected to develop sensitivity towards socio-cultural issues, environmental concerns, and practices of users. Credit units: 3 ECTS Credit Units: 7.5. Aut (N. Olguntürk)

**IAED 502 Graduate Studio II**
Students are expected to conduct research on particular topics; critically analyze assigned readings and raise/engage in discussions on those topics. Within the generated theoretical framework, students work on specific design projects, furthering their skills of problem solving, space creation and design presentation. Credit units: 3 ECTS Credit Units: 7.5. Prerequisite: IAED 501. Spr (N. Olguntürk)

**IAED 511 Research Methods I**
A foundation course which deals with system and methods regarding information acquisition, verification of sources, theory of interpretation and hypothesis formulation for developing a critical ability to understand and study the issues related to interiors. Credit units: 3 ECTS Credit Units: 7.5. Aut (M. Pultar)

**IAED 512 Statistical Analysis**
The principles of statistical analysis methods, concepts of data collection and structuring are discussed with the aim of providing the student with the necessary tools to deal with large amounts of data and to draw conclusions from such data. Credit units: 3 ECTS Credit Units: 7.5. Aut (H. Demirkan)

**IAED 514 Research Methods II**
This is a tutorial course involving the conduct of an actual research project in interior and/or environmental design. The students shall be responsible, individually and in group work, for initiating, designing and conducting a research project under the guidance of the instructor. The work will include gathering and analyzing data, drawing conclusions and preparing a research report. Credit units: 3 ECTS Credit Units: 7.5, Prerequisite: IAED 511. Spr (H. Demirkan)

**IAED 543 Environmental Analysis I**
An interdisciplinary course designed to develop cognitive skills and sensitivity for the evaluation of the built environment. Investigation of techniques and methods pertaining to analysis, synthesis and physical, social aspects of spatial formations will be dealt. Students are expected to participate in seminars and work on case studies in the studio. Credit units: 3 ECTS Credit Units: 7.5.
IAED 544  Environmental Analysis II
The methodology of environmental research and measurement technique for various aspects of environmental
attitudes and user responses/behaviors are the major topics in this course. The students are expected to carry out
empirical analyses for the measurement of any aspect in the field. IAED 543 is recommended as a preliminary.
Credit units: 3 ECTS Credit Units: 7.5.

IAED 561  History of Theory and Criticism
The specific intent of the course is to explore the relevance of the history and theory of criticism in the evaluation,
interpretation and development of an interior environment. Credit units: 3 ECTS Credit Units: 7.5.

IAED 574  Art, Science and Technology
A seminar-based course to investigate the characteristics of various disciplines that relate to art, science and
technology and correlate to the unity of mankind. Credit units: 3 ECTS Credit Units: 7.5. Spr (M. Pultar)

IAED 583  Design Principles and Theories
The aim of the course is to develop a critical understanding of theories of architecture and principles of design.
The course will explore, question and discuss classical, modern and contemporary theories of architecture, the works
of some well known architects as well as works of the students. The course will be on a mixture of lectures,
seminars and applied studies. The students are expected to do regular reading and to take active part in seminar
preparations and discussions. Credit units: 3 ECTS Credit Units: 7.5.

IAED 584  Contemporary Design Theories and Themes
A critical survey of contemporary theories related to formation of architectural understanding and practice in
response to cultural, social, historical, technological, philosophical and environmental aspects/discourses. Credit
units: 3 ECTS Credit Units: 7.5.

IAED 590  Seminar in Research Topics
Credit units: None ECTS Credit Units: None. Aut (N. Olguntürk) Spr (N. Olguntürk)

IAED 599  Master's Thesis
Credit units: None ECTS Credit Units: 24. Aut (N. Olguntürk) Spr (N. Olguntürk)

IAED 690  Seminar in Advanced Research Topics
Credit units: None ECTS Credit Units: None. Aut (N. Olguntürk) Spr (N. Olguntürk)

IAED 699  Ph.D Dissertation
Credit units: None ECTS Credit Units: None. Aut (N. Olguntürk) Spr (N. Olguntürk)
The design of urban environments requires skills of conceptualization at various scales, proposing solutions, and their implementation. It is also required to develop familiarity with issues such as heterogeneous human populations, dense building stocks, natural and environmental assets, a specialized labor force and a shared urban identity, as well as to build an ability to address these issues in design. Finally, it is necessary to master the appropriate use of natural and artificial materials.

Urban projects, of which landscape design is an integral part, have constituted the most intriguing design products in the world during the last two decades. These projects and their implementation have opened discussions leading to contemporary design theories, indicating that the integration of landscape architecture and urban design will further prosper in the future. Addressing the issues of urban context with those of landscape architecture, the department is the first to offer an undergraduate degree. The growing number of academic staff includes faculty who come from various disciplinary backgrounds including landscape architecture, city planning and architecture.

UNDERGRADUATE PROGRAM

Unlike other programs of landscape architecture, the Department of Urban Design and Landscape Architecture at Bilkent University is affiliated with a design faculty focusing on studios. The design studios and the technical and theoretical courses that make up the curriculum are supported by field trips in order to study various urban contexts as their project sites. These trips range from intra-city daily tours to international summer programs.

UNDERGRADUATE CURRICULUM

FIRST YEAR

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<thead>
<tr>
<th>Autumn Semester</th>
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<tr>
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<td>GE 100</td>
<td>Orientation</td>
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<tr>
<td>TURK 101</td>
<td>Turkish I</td>
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<td>Basic Design II</td>
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<td>Introduction to Art and Culture II</td>
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SECOND YEAR

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<td>LAUD 190</td>
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<td>Introduction to Urban Concepts</td>
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<td>LAUD 251</td>
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COURSE DESCRIPTIONS

LAUD 190 Summer Practice I
This summer practice aims to give students basic knowledge about surveying methods, grading techniques and the basic skills of map reading and recognizing topographic symbols. Measurements pertaining to topography and landforms are also demonstrated. Credit units: None ECTS Credit Units: None. Aut (B. Batuman) Spr (B. Batuman)

LAUD 201 Design Studio I: Site Design
The first stage of the Vertical Design Studios, LAUD 201: Site Design, held in all studios of LAUD is based on basics of site design, i.e., understanding and analyzing the project area, characteristics, open space types in cities, landscape elements and design techniques. Vertical Design Studio System is composed of three different studios: Concept, Context and Form in which the second, the third and the fourth year students are enrolled. The Concept and Design Studio takes “new concepts/ideas” and “generic/model solutions” as the core of the design process. The studio focuses on “social concern”; “physical setback”; and “natural flux/focus” without being site specific. The Context and Design Studio focuses on “social texture” - urban culture, identity, collective memory, demography, diversity, occupations, city life and uses; “physical texture” - morphology, typology, open spaces and architecture; and “natural texture” - land, vegetation, ecology, water bodies, and climate. The Form and Design Studio takes “form” as the core of the design process. It is aimed to design open spaces via generic urban forms derived from “urban”, “physical” and “natural” objects. Credit units: 6 ECTS Credit Units: 10, Prerequisite: FA 102. Aut (B. Batuman, U. Ertem, H. Karaca)

LAUD 202 Design Studio II: Housing
Small scale site planning and design problems that integrate landscape and urban design issues. Preparation of base plans, analysis of spaces, volumetric evaluations and project brief writing exercised as integral phases of a design problem. Frequent presentations and studio critiques will develop oral and graphic skills and techniques. Credit units: 6 ECTS Credit Units: 10, Prerequisite: LAUD 201. Spr (Staff)

LAUD 212 Computers and Geometry
Introduction of basic hardware and software concepts and the command language relevant to the operating system. Basic geometric concepts related to two and three dimensional design are introduced through various software systems. Credit units: 3 ECTS Credit Units: 5. Spr (T. Türkül)

LAUD 221 Introduction to Urban Concepts
The course provides a conceptual frame of design reference, which can be used to “emphasize” the order of architecture and urban design. In accordance with to our linguistic and numeric information based education, this course will accentuate the preparation in making sense out of visual and graphic material, to ground rules in visual literacy. The target will be to provide means into the way designers make decisions and facilitate the appreciation of the richness of the material world. During this course various concepts of the urban physical environment will be conceived as an introduction to the built form to provide a foundation for the related issues to physical environment. Credit units: 3 ECTS Credit Units: 5. Aut (D. Baykan)

LAUD 232 Landscape Representation
This course aims at introducing perspective drawing with two vanishing points; orthographic drawing visual representation of natural and built elements in both conventional and creative means, and presenting any urban design and landscape architecture project at various scales and developing technical skills. Credit units: 3 ECTS Credit Units: 4, Prerequisite: ADA 131. Spr (H. Karaca, S. A. G. Tokol)

LAUD 241 Plant Material I
This beginning level lecture and field study course is the first one of a serial courses on landscape plants. Content of the course covers basic biological structure of plants, how to classify them as tree, shrub, groundcover, vine, flower and herb, learn their botanical (Latin) names, botanical classification and plant terminology, understand a plant’s visual characteristic, ecological requirement and learning its design use. Credit units: 3 ECTS Credit Units: 5. Spr (G. Çulcuoğlu)

LAUD 242 Plant Material II
The second semester of plant material course aims to build a general framework to familiarize the students with the variety of Turkey’s flora while understanding effects of climate, topography and soil on plant communities. The students are asked to learn and identify typical plants for every region in terms of their visual characteristics (form, color, texture and size), ecological requirements and landscape uses. Credit units: 3 ECTS Credit Units: 4, Prerequisite: LAUD 241. Spr (Staff)
LAUD 251 Introduction to Landscape Theory
The first of the series of the technical courses, is an introductory lecture based course that aims to build a theoretical bases to understand meaning and scope of landscape architecture and urban design, the major components of landscape architecture such as environmental conditions, human factors, landform and landscape elements; topography, vegetation, water and built material. Credit units: 3 ECTS Credit Units: 5. Aut (H. Karaca)

LAUD 252 Site Design Techniques
The course will focus on understanding principles of site engineering especially knowledge on site grading. The course will examine land surveying, office procedures for calculating cut and fill volumes for a construction project, site drainage and erosion control techniques. Credit units: 3 ECTS Credit Units: 5. Spr (Staff)

LAUD 290 Summer Practice II
The second summer practice that focuses on plant material aims to build a familiarity with plant material, to learn their physical properties, to develop a basic understanding about their propagation techniques, design principles, application and maintenance techniques. This summer practice is done in nurseries for a minimum period of 4 weeks. Credit units: None ECTS Credit Units: None. Prerequisite: LAUD 241. Aut (B. Batuman) Spr (B. Batuman)

LAUD 301 Design Studio III: Small Town
The third of the Vertical Design Studios, LAUD 301: Small Town, is the studio where the students encounter complexities of the urban environment in the framework of small scale cities, waterfronts or selected districts of metropolitan cities. They propose future scenarios and design solutions for those project areas. Vertical Design Studio System is composed of three different studios: Concept, Context and Form in which the second, the third and the fourth year students are enrolled. The Concept and Design Studio takes “new concepts/ideas” and “generic/model solutions” as the core of the design process. The studio focuses on “social concern”; “physical setback”; and “natural flux/focus” without being site specific. The Context and Design Studio focuses on “social texture” - urban culture, identity, collective memory, demography, diversity, occupations, city life and uses; “physical texture” - morphology, typology, open spaces and architecture; and “natural texture” - land, vegetation, ecology, water bodies, and climate. The Form and Design Studio takes “form” as the core of the design process. It is aimed to design open spaces via generic urban forms derived from “urban”, “physical” and “natural” objects. Credit units: 6 ECTS Credit Units: 10. Prerequisite: ADA 202 or LAUD 202. Aut (E. Deniz, A. O. Nalbantoğlu, S. A. G. Tokol)

LAUD 302 Design Studio IV: City Center
The forth of the Vertical Design Studios, LAUD 302: City Center, dwells upon multi-functionality, transportation network, spatial qualities, changes and center - periphery interaction of core areas of larger cities. Vertical Design Studio System is composed of three different studios: Concept, Context and Form in which the second, the third and the fourth year students are enrolled. The Concept and Design Studio takes “new concepts/ideas” and “generic/model solutions” as the core of the design process. The studio focuses on “social concern”; “physical setback”; and “natural flux/focus” without being site specific. The Context and Design Studio focuses on “social texture” - urban culture, identity, collective memory, demography, diversity, occupations, city life and uses; “physical texture” - morphology, typology, open spaces and architecture; and “natural texture” - land, vegetation, ecology, water bodies, and climate. The Form and Design Studio takes “form” as the core of the design process. It is aimed to design open spaces via generic urban forms derived from “urban”, “physical” and “natural” objects. Credit units: 6 ECTS Credit Units: 10. Prerequisite: LAUD 301. Spr (Staff)

LAUD 311 Computer Aided Design
Matrix representations of the homogeneous coordinate system and transformations are introduced. Concepts such as symmetry, pattern, shape and graph theory are covered. Two and three dimensional design concepts are demonstrated through a CADD system. Credit units: 3 ECTS Credit Units: 5. Prerequisite: LAUD 212. Aut (T. TüRKAL)

LAUD 312 Advanced Modelling Techniques in C.A.D.
This course aims to strengthen and improve the students’ CAD abilities, especially in 3-dimensions. Surface modelling and solid modelling techniques are focused, with a particular emphasis on photorealistic images obtained through these models. Although the course is taught using AutoCAD software, it is possible to work in other CAD programs using the techniques mastered here. Credit units: 3 ECTS Credit Units: 6.

LAUD 324 Morphology and Typology of Urban Spaces
This elective course discusses and analyzes the physical principles, functions, relationships, and physical elements of urban spaces (buildings, landform levels, and plants). The course presents various techniques/methods to make a typological and morphological study of urban spaces to prepare a morphic language and an elementary lexicon. Credit units: 3 ECTS Credit Units: 6. Spr (S. A. G. Tokol)
LAUD 342 Planting Design
This design course introduces planting design and its significance in landscape architecture considering its all processes, and focuses on structural characteristics, visual properties, symbolic meanings, psychological effects and sensual experience of plants. Credit units: 3 ECTS Credit Units: 4, Prerequisite: LAUD 241. Spr (H. Karaca, A. O. Nalbantoğlu)

LAUD 351 Landscape Construction and Materials
This field study oriented elective course aims revealing the 'spirit' of the place and everyday life. Survey, analysis, diagnosis and design of the city's components to see and understand the urban form, its elements and related processes, and the consequences that will take place in. The subject areas are concerned with public open spaces, squares, clusters of houses, transportation hubs, cultural nodes, recreational areas, etc. Credit units: 3 ECTS Credit Units: 5. Aut (A. O. Nalbantoğlu)

LAUD 362 Making of Urban Landscape
Elements of form in cities, buildings and spatial analysis of the built environment. The historic and contemporary examples are investigated. Credit units: 3 ECTS Credit Units: 5. Aut (D. Baykan)

LAUD 371 Analysis of Urban Environment I
Analysis of the physical and cultural factors that shape residential communities in urban settings. Credit units: 3 ECTS Credit Units: 5. Spr (D. Baykan)

LAUD 372 Analysis of Urban Environment II
History of the Gardens
The course focused on the concept of garden according to the civilizations through the History, such as the Hanging Gardens of Babylon, the Ottoman gardens, the Baroque and Impressionist French gardens, the traditional Japanese gardens or the British Landscape gardens. The course consists of lectures, research presentation to feedback discussions, and videos. Credit units: 3 ECTS Credit Units: 6.

LAUD 374 History of the Gardens
The third summer practice has two stages. The first stage focuses on the application of soft material where planting techniques, plant composition, maintenance process are dealt with. The second stage focuses on the application of hard material, dealing with the process and techniques of production of hard material, the technical properties of materials, in addition to the preparation of bills of quantity and tender documents. Each stage lasts 3 weeks, a total duration of 6 weeks. Credit units: None ECTS Credit Units: None. Aut (B. Batuman)

LAUD 401 Senior Design Studio I: Open Space Network
The fifth of the Vertical Design Studios, LAUD 401 Senior Design Studio I: Open Space Network, is concerned with the design of social, physical, cultural, ecological and morphological networks in various scales. Vertical Design Studio System is composed of three different studios: Concept, Context and Form in which the second, the third and the fourth year students are enrolled. The Concept and Design Studio takes “new concepts/ideas” and “generic/model solutions” as the core of the design process. The studio focuses on “social concern”; “physical setback”; and “natural flux/focus” without being site specific. The Context and Design Studio focuses on “social texture” - urban culture, identity, collective memory, demography, diversity, occupations, city life and uses; “physical texture” - morphology, typology, open spaces and architecture; and “natural texture” - land, vegetation, ecology, water bodies, and climate. The Form and Design Studio takes “form” as the core of the design process. It is aimed to design open spaces via generic urban forms derived from “urban”, “physical” and “natural” objects. Credit units: 6 ECTS Credit Units: 10, Prerequisite: ADA 302 or LAUD 302. Aut (K. Arapgirlioğlu, D. Baykan)

LAUD 402 Senior Design Studio II: Graduation Projects
The finale of the Vertical Design Studios is the graduation semester that is established as the urban design and landscape architecture medium of knowledge gained through the undergraduate education via special topics in selected cities. Vertical Design Studio System is composed of three different studios: Concept, Context and Form in which the second, the third and the fourth year students are enrolled. The Concept and Design Studio takes “new concepts/ideas” and “generic/model solutions” as the core of the design process. The studio focuses on “social concern”; “physical setback”; and “natural flux/focus” without being site specific. The Context and Design Studio focuses on “social texture” - urban culture, identity, collective memory, demography, diversity, occupations, city life and uses; “physical texture” - morphology, typology, open spaces and architecture; and “natural texture” - land, vegetation, ecology, water bodies, and climate. The Form and Design Studio takes “form” as the core of the design process. It is aimed to design open spaces via generic urban forms derived from “urban”, “physical” and “natural” objects. Credit units: 6 ECTS Credit Units: 10, Prerequisite: LAUD 401. Spr (Staff)

LAUD 404 Senior Design Research
This intensive research and writing course is organized in seminar format. It aims on the one hand to provide a knowledge basis for the Senior Design Studio, while on the other, to help prepare students for a variety of
professional careers. This preparation includes enhancing skills of critical and analytical thinking and creative problem solving, while developing a sensitivity and responsibility to social problems. Credit units: 3 ECTS Credit Units: 4, Prerequisite: LAUD 401. Spr (F. Erkip)

LAUD 417 Contract Documents
A lecture/studio course studying the technical and practical aspects of organizing the components of a full set of contract documents for a landscape and urban design project. All working drawings, bills of quantity, organization of the specifications and relationship of these components to the conditions of tender and contract are prepared and compiled in a portfolio. Credit units: 3 ECTS Credit Units: 6. Aut (A. O. Nalbantoğlu)

LAUD 418 Professional Practice
A lecture/seminar course studying the practical aspects of professional practice, social, legal, technical, ethical and financial factors. The relations between the designer, contractor and client, office management and organization, tendering and contracting procedures and project management and supervision are also studied. Credit units: 3 ECTS Credit Units: 5. Spr (A. O. Nalbantoğlu)

LAUD 421 Realization of Urban Projects
This is an interactive course, studying the conditions/factors, partners/actors, elements of project realizations, to provide better urban environments. During the course, problems that may be encountered at different levels of urban project realization in terms of legal, institutional, financial issues will be taken up. Various approaches to urban problems will be discussed with the students and the students will be exposed to different case studies given by guest lectures. Credit units: 3 ECTS Credit Units: 6.

LAUD 441 Realization of Planting Projects
The course aims to assist the landscape architecture students of final year(s) in utilizing their accumulated knowledge on the morphologic specifications of plant typologies in various open space applications. Each student completes a set of detailed construction documents for planting implementations. The course primarily operates in studio environment with hands-on applications of project design cases. Brief lectures are held to refresh and to synchronize the specific topics relevant with the weekly exercises. The lectures are supported by visual presentations of plant typologies and planting design practices. Credit units: 3 ECTS Credit Units: 6.

LAUD 461 Occupancy in Urban Areas
This course focuses on the relationship between people and the physical settings, particularly urban public spaces. Lectures on various aspects of occupancy in urban areas and field studies conducted to analyze cases are in different contexts constitute the course work. The content and the format make the course an appropriate one for joint arrangements with other universities at home and abroad. Credit units: 3 ECTS Credit Units: 6.

LAUD 471 Urban Sociology
This is a compulsory fourth year course that is designed to provide a better conceptualization of the components of the city to be used in urban design within an overall system of urbanization. The dynamics of urbanization process and the economic, social, and cultural aspects of the urban phenomena will be discussed with reference to different approaches in the analysis of this process. Particular emphasis will be given to the spatial repercussions of different aspects of the urbanization process in different environments. The course aims at widening the perspectives of students with respect to the development of cities throughout history in different contexts. Credit units: 3 ECTS Credit Units: 5. Aut (F. Erkip)

LAUD 472 Recent Issues in Human Geography
The relations between society, space and social science in a changing world are studied. Recent approaches in analyzing the relationships between society and space in different time and space contexts are discussed with an emphasis on time-space geography, agency and structure relationships, local/global dynamics, images and symbols in different cultural contexts. Credit units: 3 ECTS Credit Units: 6.

LAUD 474 Space, Culture and Identity
This course examines the cultural and political contradictions of urban design. It explores how urban design turns the city into a scientific object of knowledge, a laboratorium of modernity, and a site for the formation of new experiences and identities. It considers the ways in which urban design contributes to the expansion of colonial power, the maintenance of social order and inequalities. It also pays particular attention to how urban design stimulates political imaginaries, social revolutions and everyday resistances. Drawing critically on a variety of sources, from architectural history to philosophy and anthropology, the course presents cases of urban design and its politics, historically and theoretically, from different places across the globe. Credit units: 3 ECTS Credit Units: 5.

LAUD 475 Cinema and Space
The course dwells upon multiple readings of interior and exterior spaces within the framework of the theory of cinematic montage and cinematic imagery. Understanding and interpreting space concept requires a construction of an interdisciplinary vocabulary and a dialogical situation. Therefore, using and designing a space includes cognitive, moral and aesthetic judgments, and collective, personal and even popular representations. The assumption is that it is possible to form an analogy between cinema and space design, and between the eye and the camera moving in an urban milieu. If design is understood as a cinematographic process, it is seen
that both creative acts are organized in time through space and perceived through time in space. Respectively, the notion of architectural and urban spaces, their syntactic characteristics, and analytical simulations form a common analogy with cinema in terms of their production and consumption. Credit units: 3 ECTS Credit Units: 6. Aut (S. A. G. Tokol)

**LAUD 476 Visual Politics of Space**
Vision has been the dominant component of human perception and seen as the source of sound knowledge of the outside world. Concepts deriving from etymological roots of “vision” and “seeing” in diverse geographies have for centuries suggested ways of knowing and understanding. Meanwhile, visuality also defined a major dimension of the experience of space; it has been a constitutive element of the social, cultural and political meanings attributed to space in various scales (architectural, urban, national, etc.) This course examines the relation between systems of visual representation and social power relations through the connection(s) between image and space. The capacity of visual representations to produce meaning, the hidden or overt political implications of such meanings, and the social functions of these representations will be discussed in an interval between the mid-19th century to the end of the 20th century. This inquiry will dwell on themes such as gender, colonial domination, nation building, grassroots movements, avant-garde art approaches. The role of various visual media (painting, photography, cinema) on the ways of perceiving, conceptualizing and socially defining space will be discussed. Credit units: 3 ECTS Credit Units: None.

**LAUD 481 Landscape Ecology**
The objective of the course is to provide students with the knowledge of ecology, ecosystems, environmental problems limits of environment in reference to human activities on land. Equip them with tools of analysis, synthesis and assessment methods of landscape structure, function, change and processes to be able them to achieve sustainable environments, landscape ecology relatively a new discipline will also guide students how to deal with real environmental problems on the local scale while providing a global understanding an issues such as climate change, written shortages, energy problems, importance of green networks. The course consists of lectures; research topics, case studies and final project with previous in class-presentations. Credit units: 3 ECTS Credit Units: 5.

**LAUD 482 Tourism and Nature Conservation**
Classification of natural areas, national parks and equivalent reserves are discussed emphasizing outdoor recreation, concepts of soft tourism, green tourism, alternative tourism, ecotourism, and sustainable tourism; symbiotic relationships between nature conservation and tourism; holiday villages and campgrounds; nature-based outdoor recreation and tourism activities. Credit units: 3 ECTS Credit Units: 6. Aut (K. Arap grilledoglu)

**LAUD 483 Environment Philosophy and Ethics**
This course aims to restructure the meaning of environment and question human attitude towards nature and other living things. Related environmental topics and issues will be discussed in the light of environmental philosophy and its historical progress. The course will also discuss environmental ethics that deals with relations of human beings to environment and the conflicts that arise, as well as the role of ethics in guiding human behavior. The course aims to embrace students from a variety of disciplines to build a certain level of consciousness, responsibility and skills to understand and resolve environmental conflicts. This will be established through the review of selected case studies related to each student’s disciplinary background. Credit units: 3 ECTS Credit Units: 6.

**LAUD 484 People and Nature**
This new course aims to identify problems related to the protection of natural areas to the people who live nearby. By understanding what motivates the society and related actors, the course will try to attempt finding new effective environmental policies and propose solutions. The course will focus on nature protection, conservation and ecological processes, also asking questions on the economy of the society, existing legal foundation, participation, policy management and new techniques for solutions. The main objective is to work on a real life case that is under the stress of any type of urban development i.e. industry, mining, mass housing. The students will try to propose solutions to that specific case that balances protection vs. local use which benefits nature and people in mutual basis. The case study process will include a field trip to the site, collection of data, working with local citizens and governments to provide a unique solution for each case. A jury will be held with local people and interested parties at the end of the semester to share the students’ proposals. By working on a real life case, the course also aims find solutions to bridge the gap between theory-science-university and practice-policy-society. Students, who are interested in involving in the policy management and project development for an environmentally sensitive case; are potential candidates for this course. Credit units: 3 ECTS Credit Units: 6.
The Department offers undergraduate and graduate programs leading to B.S., M.B.A., M.S. and Ph.D. degrees.

The main objective of the programs is to develop the skills required to confront the challenges of a changing world. The successful managers of the future should be able to cope with the complexities of change and an economic environment which is best characterized by keen competition. Thus contemporary business education does not only include teaching the techniques of the profession, but aims at developing a vision, flexibility and adaptability to new situations.

The programs’ emphasis is on analytical methods and problem solving rather than a mere description of existing practices. Participative learning is emphasized through case analyses, term projects, simulation and classroom discussions. Computer applications, quantitative analysis and behavioral sciences are integrated into the programs to provide for quantitative and qualitative aspects of management with an emphasis on the former. The graduates are equipped with knowledge, skills and analytical thinking necessary to enhance the effectiveness and efficiency of the enterprises that they will serve.

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Ph.D., Marketing, Pennsylvania State University, 1999. Consumer behavior, marketing management, advertising.

Tanseli Savaşer, Assistant Professor  

Kadire Zeynep Sayım Yazal, Assistant Professor (on leave)  

Banu Sultanoğlu, Instructor  
M.S., Accounting and Finance, Başkent University, 2008. Accounting, auditing.

Fehmi Tanrısever, Assistant Professor  

Ayşe Başak Tanyeri, Assistant Professor  

Mehmet Selçuk Uslu, Adjunct Senior Lecturer  
Ph.D., Accounting, Ankara Academy of Economic and Commercial Sciences, 1973. Accounting, cost analysis and management

Cemal Deniz Yenigün, Assistant Professor  

PART-TIME ACADEMIC STAFF

Çiğdem Özdemir Evren, MBA, Bilkent University, 2012.
### DEPARTMENT OF MANAGEMENT


The aim of the Department of Management is to prepare managers for the global business arena with emphasis on computer-based analytical problem solving techniques for decision making and a strong quantitative approach for managing resources.

### UNDERGRADUATE PROGRAM

The undergraduate curriculum exposes the student to basic social sciences through courses in economics, psychology, sociology and history. Courses in mathematics and statistics are included to provide the background necessary for technical skills. Basic courses in the functional areas of business are offered in first, second, and third years. In addition, the curriculum provides elective courses in those functional areas so that students can focus on an area of their choice. Majors will provide students with guidance in selecting MAN electives, and will be declared at the beginning of Term 2 of Year 3. Doing a major will enable the students to get specialized in a one of the below subjects: Finance and Quantitative Analysis, Global Business Rules, Marketing and Innovation Management, Business and Management.

### UNDERGRADUATE CURRICULUM

#### FIRST YEAR

<table>
<thead>
<tr>
<th>Semester</th>
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<tbody>
<tr>
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<tr>
<td>ECON 101</td>
<td>Introduction to Economics I</td>
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<tr>
<td>ENG 101</td>
<td>English and Composition I</td>
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<tr>
<td>GE 100</td>
<td>Orientation</td>
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<td>MAN 101</td>
<td>Introduction to Business I</td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to Calculus I</td>
</tr>
<tr>
<td>SOC 101</td>
<td>Introduction to Sociology</td>
</tr>
<tr>
<td>TURK 101</td>
<td>Turkish I</td>
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<tr>
<td><strong>Spring Semester</strong></td>
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<tr>
<td>ECON 102</td>
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<tr>
<td>ENG 102</td>
<td>English and Composition II</td>
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<tr>
<td>MAN 102</td>
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<td>MATH 106</td>
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<tr>
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<td>Introduction to Psychology</td>
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<td>TURK 102</td>
<td>Turkish II</td>
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#### SECOND YEAR

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<tr>
<td>ECON 221</td>
<td>Introduction to Probability and Statistics I</td>
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<tr>
<td>GE 250</td>
<td>Collegiate Activities Program I</td>
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<tr>
<td>HUM 111</td>
<td>Cultures Civilizations and Ideas I</td>
</tr>
<tr>
<td>MAN 213</td>
<td>Principles of Financial Accounting</td>
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<tr>
<td>MATH 227</td>
<td>Introduction to Linear Algebra</td>
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<tr>
<td>ECON 222</td>
<td>Introduction to Probability and Statistics II</td>
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<td>ENG 206</td>
<td>Business Communications</td>
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</tr>
<tr>
<td>GE 251</td>
<td>Collegiate Activities Program II</td>
</tr>
<tr>
<td>HIST 200</td>
<td>History of Turkey</td>
</tr>
<tr>
<td>HUM 112</td>
<td>Cultures Civilizations and Ideas II</td>
</tr>
<tr>
<td>MAN 256</td>
<td>Introduction to Management Science</td>
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<td>MAN 262</td>
<td>Organizational Behavior</td>
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**THIRD YEAR**

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<td>Business Law</td>
<td>3 / 6</td>
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<tr>
<td>MAN 321</td>
<td>Corporate Finance</td>
<td>3 / 6</td>
</tr>
<tr>
<td>MAN 335</td>
<td>Fundamentals of Marketing</td>
<td>3 / 6</td>
</tr>
<tr>
<td>MAN 341</td>
<td>Production Management</td>
<td>3 / 6</td>
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<td>MAN 361</td>
<td>Organization Theory</td>
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**Spring Semester**

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<tr>
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<td>MAN 312</td>
<td>Managerial Accounting</td>
<td>3 / 6</td>
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<td>Major Electives (4)</td>
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**FOURTH YEAR**

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<td>Autumn Semester</td>
<td>Summer Practice</td>
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<tr>
<td>MAN 403</td>
<td>International Business</td>
<td>3 / 6</td>
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<tr>
<td>General Elective</td>
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<td>Major Electives (3)</td>
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| Spring Semester | Business Strategy                                | 3 / 6                  |
| General Elective                                   | 3 / 6                  |
| Major Electives (3)                                | 9 / 18                 |

**MAJOR ELECTIVES**

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<tr>
<td>ECON 301</td>
<td>Econometrics I</td>
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<td>ECON 302</td>
<td>Econometrics II</td>
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<tr>
<td>ECON 322</td>
<td>Monetary Economics</td>
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<tr>
<td>ECON 331</td>
<td>International Economics I</td>
<td>3 / 6</td>
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<tr>
<td>ECON 332</td>
<td>International Economics II</td>
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<tr>
<td>ECON 426</td>
<td>Applied Economic Analysis</td>
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<td>ECON 432</td>
<td>Turkish and World Economy in the 20th Century</td>
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<td>IR 338</td>
<td>Politics of International Economy</td>
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<tr>
<td>LAW 303</td>
<td>Public International Law</td>
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<td>LAW 304</td>
<td>Private International Law</td>
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<td>LAW 406</td>
<td>International Business Law</td>
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<td>MAN 302</td>
<td>Business Forecasting</td>
<td>3 / 6</td>
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<td>MAN 306</td>
<td>Market Research</td>
<td>3 / 6</td>
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<tr>
<td>MAN 307</td>
<td>Financial Management</td>
<td>3 / 6</td>
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<tr>
<td>MAN 322</td>
<td>Money and Banking</td>
<td>3 / 6</td>
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<tr>
<td>MAN 342</td>
<td>Operations Management II</td>
<td>3 / 6</td>
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<td>MAN 401</td>
<td>Managerial Economics</td>
<td>3 / 6</td>
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<tr>
<td>MAN 404</td>
<td>Investment Analysis</td>
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<td>MAN 407</td>
<td>Business Plan Development</td>
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<td>MAN 410</td>
<td>Innovation Management</td>
<td>3 / 6</td>
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<tr>
<td>MAN 414</td>
<td>Auditing</td>
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<tr>
<td>MAN 416</td>
<td>Financial Statement Analysis</td>
<td>3 / 6</td>
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<tr>
<td>MAN 417</td>
<td>Entrepreneurial Marketing</td>
<td>3 / 6</td>
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<tr>
<td>MAN 419</td>
<td>Marketing Strategy and Innovation</td>
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<tr>
<td>MAN 421</td>
<td>Capital Markets and Institutions</td>
<td>3 / 6</td>
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<tr>
<td>MAN 422</td>
<td>International Finance</td>
<td>3 / 6</td>
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<tr>
<td>MAN 424</td>
<td>Risk Management</td>
<td>3 / 6</td>
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<tr>
<td>MAN 425</td>
<td>Corporate Financial Strategy</td>
<td>3 / 6</td>
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<tr>
<td>MAN 426</td>
<td>Privatization</td>
<td>3 / 6</td>
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</table>
MBA 542 Production and Operations Management
MAN 485 Real Estate Finance
MAN 474 European Union and Turkey: Trade and Policies
MAN 451 Decision Analysis
MAN 432 Consumer Behavior
MAN 411 Accounting
MAN 400 Business Studies and Practice
MAN 477 Financial Intermediation
MAN 429 Financial Regulations
MAN 430 Anthropological Marketing
MAN 432 Consumer Behavior
MAN 433 Global Marketing and Emerging Markets
MAN 434 Integrated Marketing Communications
MAN 436 Services Marketing
MAN 439 New Product Development
MAN 440 Revenue Management
MAN 444 Special Topics in Finance
MAN 446 Supply Chain Management
MAN 447 Project Management
MAN 451 Decision Analysis
MAN 467 Cross-Cultural Management
MAN 474 European Union and Turkey: Trade and Policies
MAN 477 Financial Intermediation
MAN 479 Sales Management
MAN 483 Entrepreneurial Management
MAN 485 Real Estate Finance
MAN 492 Business Studies and Practice

GRADUATE PROGRAM

Master of Business Administration (M.B.A.) Program

The MBA program aims to foster the education of proficient managers and executives who can effectively recognize and "manage" the challenges presented by a continuously changing business environment. The goal is to provide a strong foundation of administrative and conceptual skills to prospective managers who may assume responsibilities of planning, organizing, directing and controlling the operations of public and private organizations. The MBA degree can be viewed as extending and enhancing a wide variety of undergraduate experiences, including but not limited to the programs in engineering, economics and social sciences as well as in business. The program's emphasis is on analytical methods and problem solving rather than a mere description of existing practices. Participative learning is emphasized through case analyses, term projects, simulation, and classroom discussions. Computer applications, quantitative analysis and behavioral sciences are integrated into the program to provide for quantitative and qualitative aspects of management. The graduates are equipped with the knowledge, skills and analytical thinking necessary to enhance the effectiveness and efficiency of the enterprises they will join.

Admission: Applicants to the program should have a Bachelor's degree (B.S. or B.A.) and should be proficient in English. Applicants are evaluated on the basis of their GMAT scores, academic records, ALES (Akademik Personel ve Lisansüstü Eğitimi Giriş Sınavı - Academic Personnel and Postgraduate Education Entrance Examination) scores (required from all Turkish applicants), letters of recommendation, career goals and an interview.

Degree Requirements: Students admitted to the program will be required to complete a minimum of 60 credit hours of course with a minimum cumulative grade point average of 3.00/4.00.

CURRICULUM of the M.B.A. PROGRAM

<table>
<thead>
<tr>
<th>Courses</th>
<th>Credits / ECTS Credits</th>
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<tbody>
<tr>
<td>MBA 500 Bilcamp</td>
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<tr>
<td>MBA 502 Macroeconomics</td>
<td>3 / 6</td>
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<tr>
<td>MBA 503 Microeconomics</td>
<td>3 / 6</td>
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<tr>
<td>MBA 511 Accounting</td>
<td>3 / 6</td>
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<tr>
<td>MBA 522 Corporate Finance</td>
<td>3 / 6</td>
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<tr>
<td>MBA 532 Marketing Management</td>
<td>3 / 6</td>
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<tr>
<td>MBA 542 Production and Operations Management</td>
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<tr>
<td>MBA 551 Probability and Statistics</td>
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<tr>
<td>MBA 553 Data Models and Decisions</td>
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<td>Course Code</td>
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<tr>
<td>MBA 561</td>
<td>Management</td>
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<td>MBA 562</td>
<td>Human Resource Management</td>
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<tr>
<td>MBA 591</td>
<td>Business Strategy</td>
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<td>MBA 592</td>
<td>Business Practice</td>
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<tr>
<td>MBA 602</td>
<td>MBA Project</td>
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**ELECTIVES**

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<tr>
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<td>Theory and Method in Media Visual and Cultural Studies</td>
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<tr>
<td>GRA 519</td>
<td>Critical Approaches to Advertising Consumer Culture</td>
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<td>GRA 520</td>
<td>Critical Approaches to Popular Culture</td>
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<td>GRA 555</td>
<td>On Critical Reasoning and Artwork</td>
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<td>GRA 556</td>
<td>Visual Communication Approach to Artistic Thinking</td>
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<td>Philosophy of Modern Art</td>
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<td>IR 547</td>
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<td>IR 572</td>
<td>European Union Integration, EU and OECD Economies</td>
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<td>IR 574</td>
<td>Turkey's International Relations</td>
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<td>IR 594</td>
<td>International Law and Organizations</td>
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<td>Economic Analysis of Law</td>
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<td>LAW 503</td>
<td>Economics of Competition</td>
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<td>Competition Law</td>
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<td>LAW 505</td>
<td>Economic Regulation and Law</td>
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<td>LAW 520</td>
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<td>International Business</td>
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<td>MAN 639</td>
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<td>MBA 504</td>
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<td>MBA 517</td>
<td>Fixed Income Securities I</td>
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<td>Fixed Income Securities II</td>
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<td>MBA 519</td>
<td>Financial Institution and Markets</td>
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<td>MBA 524</td>
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<td>MBA 526</td>
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<td>MBA 527</td>
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<td>MBA 531</td>
<td>Marketing Research</td>
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<td>MBA 535</td>
<td>Consumer Behavior I</td>
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<td>Consumer Behavior II</td>
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<td>MBA 537</td>
<td>Brand Planning for New and Existing Products</td>
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<td>Services Marketing</td>
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<td>Pricing Strategies and Tactics</td>
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<td>Supply Chain Management</td>
<td>3 / 6</td>
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<td>MBA 555</td>
<td>Markets and Cultures</td>
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</table>
MBA 556 Strategic Acquisitions: Identification, Negotiation and Post-Merger Integration 2 / 4
MBA 557 New Venture and Business Plan Development: Entrepreneurship and Intrapreneurship 2 / 4
MBA 563 Group Processes and Team Dynamics 3 / 6
MBA 564 Business Ethics 2 / 4
MBA 566 Change Management 3 / 6
MBA 568 Entrepreneurship and Innovation Management 3 / 6
MBA 576 Business Plan Development 2 / 4
MBA 579 Behavioral Dynamics of Organizations 3 / 6
MBA 580 Sales Management 2 / 4
MBA 582 New Product Design and Marketing 3 / 6
MBA 584 Special Topics in Business Administration 2 / 4
MBA 585 Special Topics in Marketing 3 / 6
MBA 589 Hands on Project Management 2 / 4
MBA 596 IT Governance 3 / 6
MBA 597 Business Strategy Simulation 1 / 2
MBA 600 MBA Project I 3 / 6
MBA 631 Markets and Competition 2 / 4
MBA 632 E-Commerce and Internet Marketing 2 / 4
MBA 662 International Human Resource Management 2 / 4
MBA 671 Growth Through Globalization: Creating and Managing the International Enterprise 2 / 4
MBA 672 Leadership for International Managers 2 / 4
MBA 673 International Business Strategy 2 / 4
MBA 674 Global Supply Chain Strategy 2 / 4
MBA 675 Enterprise Resource Planning (ERP) Systems: Strategy and Practice 2 / 4
MBA 676 Globalization Branding and Emerging Markets 3 / 6
MBA 677 Negotiating Skills for International Executives 2 / 4
MBA 678 Applied International Business 2 / 4
MBA 679 Managing Through Social Media x Networks 2 / 4

Executive MBA Program

Executive MBA programs are specially designed programs for the working middle and top-level managers. These programs are inherent parts of all major business schools around the world for the last 50 years. The major reason that makes these programs popular is the necessity to refresh the skills and knowledge obtained during the undergraduate and graduate studies of the managers. The limited (and typically short) shelf-life of the knowledge, the demanding managerial responsibilities and intense working hours of these managers have motivated to design these programs in accordance with the special needs of these managers.

Participants of the Bilkent Executive MBA program will be exposed to a wide variety of courses including management, marketing, economics, accounting, finance, operations and decision making, law and information management. The program is designed to provide maximum flexibility to the participants; classes will be given on Friday and Saturday of every other week. Participants will meet 86 days with a total of 468 contact hours in 21 months.

Admission: Applicants to the program are required to have a bachelors degree (BS or BA), minimum managerial experience of three years, and proficiency in English sufficient to follow the course material. Applicants should have strong communication and social skills, entrepreneurial and leadership qualities and aim to be top-level executives. All applicants are required to submit ALES scores.

Degree Requirements: Participants admitted to the program will be required to complete a minimum of 41 credit hours of course with a minimum cumulative grade point average of 3.00/4.00.

MASTER OF SCIENCE and Ph.D. PROGRAMS

The Faculty of Business Administration offers the Masters of Science and the Doctor of Philosophy degrees for those interested in advanced study of the theory and practice of management in three
areas Finance, Marketing, and DSOM (Decision Science and Operations Management).

The mission of the Bilkent MS/PhD Program in Business Administration is to prepare individuals for research and teaching careers. A high faculty-to-student ratio and active involvement in research throughout the program foster close interaction between students and faculty and accelerate the transition from students to academic. Programs of study designed for the particular needs and research interests of each individual enable the students to master the behavioral, social, economic, and mathematical sciences through courses from various departments in Bilkent University. An active exchange program with universities abroad provides additional opportunities for coursework and collaborative research. Visiting scholars and graduate students from abroad add to the diversity of our community.

The research conducted by our faculty covers a broad range of areas of expertise and we welcome graduate students with degrees in a wide range of fields (anthropology, business administration, computing science, economics, engineering, ethnography, mathematics, physics, psychology, statistics etc.).

Master of Science

Admission: Applicants must have a bachelor's degree in business administration, economics, engineering or a related field. They must be fluent in written and oral English, and possess strong quantitative and qualitative skills. All applicants are required to submit GMAT or GRE scores and provide recommendation letters. ALES scores are needed for Turkish applicants. Proficiency in written and oral English must be documented. (Also refer to the “Graduate Admissions” section in the introduction of this catalog for the general graduate admission requirements and www.man.bilkent.edu.tr for the particular requirements of the Master of Science programs in business administration.)

Requirements: Students have to complete a minimum of 24 credit hours of coursework, write and defend a master’s thesis and maintain a cumulative GPA of at least 3.00/4.00. The expected duration of M.S. study is four semesters.

Doctor of Philosophy

Admission: Applicants must be fluent in written and oral English, and possess strong quantitative and qualitative skills. Candidates should submit GMAT or GRE scores and provide recommendation letters. ALES scores are needed for Turkish applicants. Proficiency in written and oral English must be documented. (Also refer to the “Graduate Admissions” section in the introduction of this catalog for the general graduate admission requirements and www.man.bilkent.edu.tr for the particular requirements of the Ph.D. program in business administration.)

Requirements: The Ph.D. program consists of a course work of at least 27 credit hours, a qualifying examination, preparation, proposal, and defense of a dissertation based on original research. The student should maintain a cumulative GPA of 3.00/4.00 throughout the period of study. Course work is tailored according to the field chosen and the specific research needs of the student. The expected duration for Ph.D study is eight semesters for students with MS degree and ten semesters for students with BS degree.

COURSE DESCRIPTIONS

UNDERGRADUATE COURSES

MAN 101 Introduction to Business I
This course introduces students to business education. Students will develop a basic notion of ‘business’ at the beginning of their education, emphasising ethics, globalisation, small business and entrepreneurship. They will be able to identify the main functional areas of business, including management, operations, marketing, finance and accounting, and start to develop an understanding of how they fit together. The course features interactive lectures, documentaries and video cases, and small group discussions. Credit units: 3 ECTS Credit Units: 6.

Aut (Ö. T. Baycan, L. Gümüşlioğlu) Spr (C. Aydoğmuş)

MAN 102 Introduction to Business II
This course carries on introducing students to business computer applications. Students will acquire ICT (Informative Communication Technologies) skills, which they will practice during both in their education and
MAN 211 Principles of Accounting I
This course is especially designed for Law students. The objective is to make them aware of and familiar with financial transactions and information. For this purpose the topics covered in this course are as follows: The accounting environment, basic elements of recording financial transactions, accounting cycle, year end adjustments and closings and the preparation of financial statements. The emphasis will be on the Income Statement and the Statement of Financial Position. Introductory knowledge of how to read financial statements will also be given to the students. Credit units: 3 ECTS Credit Units: 6. Aut (Ö. T. Baycan) Spr (C. Aydoğmuş, Ö. T. Baycan)

MAN 212 Principles of Financial Accounting
An introductory accounting course, that covers the accounting environment, basic mechanics of record keeping and reporting of financial statement information. Specifically, the topics covered include the generally accepted accounting principles, functional roles of the accounting system, the accounting cycle, preparation and reporting of financial statements (balance sheet, income statement, cash flow statement, and statement of shareholders’ equity) together with the discussion of individual accounts that are included in those financial statements (i.e. current assets; long-term assets and accounting for depreciation; liabilities and shareholders’ equity). Credit units: 4 ECTS Credit Units: 6. Aut (C. Aydoğmuş, S. Demirkar, B. Sultançioğlu, F. Tanrısever) Spr (S. Demirkar)

MAN 216 Elements of Finance
This course focuses on various factors that have an impact on how individuals and groups respond to and act in organizations. Within this context, the course consists of the application of accounting, finance, and financial management concepts to real world business situations. The emphasis is on the financial statements, their interpretation and preparation, the role of accounting in the use of financial information, and financial decisions. Credit units: 3 ECTS Credit Units: 6. Aut (T. Savaşer) Spr (T. Savaşer, A. B. Tanyeri, M. S. Uslu)

MAN 256 Introduction to Management Science
Management science is the application of mathematical modeling to decision making in various management contexts. This course introduces students to mathematical model construction, spreadsheet modeling using Excel Solver, and interpretation of Solver output. The topics also include other decision making tools such as decision trees and simulation. Credit units: 3 ECTS Credit Units: 6. Prerequisite: ECON 225 or MATH 227. Aut (E. Erel) Spr (A. Kocabıyıkölű, F. Tanrısever)

MAN 262 Organizational Behavior
This course focuses on various factors that have an impact on how individuals and groups respond to and act in organizations. Within this context, the course consists of the application of concepts, theories, and empirical results from the behavioral and social sciences to the study of behavior in and around organizations. Credit units: 3 ECTS Credit Units: 6. Prerequisite: PSYC 100 or SOC 101. Spr (C. I. Göğüş, Z. Karakıtapoğlu Aygün)

MAN 302 Business Forecasting
This course aims to provide the concepts and principles of a variety of forecasting models. Main emphasis is on the establishment of a process for effective forecasting. Within this framework, various smoothing techniques, regression analysis, ARIMA models, and judgmental forecasting issues are discussed in detail. Credit units: 3 ECTS Credit Units: 6. Prerequisite: ECON 221. Aut (D. Önkal) Spr (D. Önkal, C. D. Yenigün)

MAN 303 Business Ethics and Social Responsibility
The course examines issues in business ethics within the context of society, government and business where different stakeholders pursue their interests. In this dynamic environment managers and firms have to consider the social responsibility of business and have to face ethical issues, complexities and dilemmas in making the "right" (sometimes the "more right") decisions and implementing them. Furthermore, the course aims to increase the ethical awareness of students and to provide them with knowledge, skills and tools to manage ethical problems within the organization and with the stakeholders in the environment. Credit units: 3 ECTS Credit Units: 6. Prerequisite: MAN 101 or MAN 102 or MAN 262.

MAN 306 Market Research
Regardless of the type of the organization, managers in all functions and at all levels need systematic and dependable information about their operations. More specifically, managers need information about their employees, customers, suppliers, competitors, and macro variables of their environment. In an ever changing and volatile business environment, the task of market research is to provide managers with accurate, reliable, relevant, valid and timely information. In this course, the students will be expose to various research methods that are currently being used in the industry in order to find solutions for problems that various organizations are facing. By the completion of this course, the students should be able to understand the organizational value and context of information gathering, know when to collect primary and secondary data, determine the appropriate
MAN 307  Financial Management
MAN 307 is an intermediate level course on the theory and practice of corporate finance. Upon successful completion of the course, students will be able to: master financial vocabulary to communicate effectively with professionals in finance; draw pro-forma financial statements and apply investment rules to make investment decisions; recognize the differing objectives of the firms’ stakeholders (such as shareholders, bondholders, managers, employees, customers, suppliers) and evaluate how the differing objectives may affect the decision-making of financial managers; recognize and evaluate the effect of financing decisions on firm value. Credit units: 3 ECTS Credit Units: 6, Prerequisite: MAN 321. Spr (A. B. Tanyeri)

MAN 312  Managerial Accounting
MAN 312 is an intermediate level course that introduces students to the concepts and tools of managerial accounting. The course focuses on decision making at different levels of management, and on data and reports to facilitate the decision making process. Topics covered include: cost volume profit analysis, cost behavior, costing systems, budgeting, unit cost calculations, pricing, variance analysis, responsibility accounting, and performance evaluation. Credit units: 3 ECTS Credit Units: 6, Prerequisite: MAN 213. Aut (K. Aydoğan, C. Aydoğan, B. Esmer, Z. Önder) Spr (B. Esmer, A. Salih)

MAN 321  Corporate Finance
MAN 321 is an intermediate level course on the theory and practice of corporate finance. An analytical study of financial management as a major business function. Topics include: an overview of the marketing system, the marketing concept, market research, market analysis, market strategies (segmentation, targeting, positioning), and marketing programs. An examination of how effective marketing strategy and program decisions is based on an analysis of buyer behavior, market structure and competition. Credit units: 3 ECTS Credit Units: 6, Prerequisite: MAN 213. Aut (K. Aydoğan, C. Aydoğan, B. Esmer, Z. Önder) Spr (B. Esmer, A. Salih)

MAN 333  Marketing Principles
MAN 333 is an intermediate level course that introduces students to the fundamental concepts, tools and activities that comprise the marketing function. It overviews the development of marketing thought as well as contemporary issues in marketing. Topics include: the marketing concept and orientation, segmentation and positioning, buyer behavior analysis, and marketing mix-product, price, promotion, distribution-decisions. Credit units: 3 ECTS Credit Units: 6, Prerequisite: ECON 101 and ENG 206 and MAN 102. Aut (A. Ekici)

MAN 341  Production Management
MAN 341 is an intermediate level course that focuses on tactical and operational level production management decisions. Tentative topic list includes: aggregate production planning, planning for mass production, planning and control of batch production, deterministic and stochastic inventory models, Materials Requirements Planning, Supply Chain Management, scheduling and sequencing, maintenance and manpower planning, project management, and waiting lines/queueing. Credit units: 3 ECTS Credit Units: 6, Prerequisite: MAN 341.

MAN 361  Organization Theory
MAN 361 is an intermediate level course that helps students obtain in-depth understanding of organizations and organizational effectiveness. By introducing the basic concepts and recent theoretical approaches, the course will help students to develop the capability of understanding, designing, and managing organizations. The course emphasizes both the macro characteristics of organizations such as their structures, technology and environment, and internal processes such as organizational culture, managerial decision making, politics and conflicts. Credit units: 3 ECTS Credit Units: 6, Prerequisite: MAN 262. Aut (Z. Karakitapoğlu Aygün) Spr (A. Ö. Örge)
MAN 399  Summer Practice
The minimum time for this practice in an organization is four weeks (20 working days). The main objective is to observe a company / institution / organization in an original setting and work on questions relevant to the company / institution / organization on the fundamental areas of Management. Credit units: None ECTS Credit Units: None.

MAN 400  MBA in a Nutshell
This course is designed for non-business undergraduate students to introduce the functional areas of management in a compact way. In this three credit course, complex business problems will be discussed via MBA-style "case method". The students will have an opportunity to learn from real-world scenarios under the guidance of the Faculty of Business Administration faculty members. The content is based on ten topics such as marketing, leadership and corporate accountability, accounting, organizational behavior, finance, quantitative methods, strategic management, operations, entrepreneurship, and world economy. Credit units: 3 ECTS Credit Units: 6.

MAN 401  Managerial Economics
This course introduces economic concepts used in managerial decision making. By the end of the course students will be equipped with basic tools of microeconomics and with experience applying these tools to questions about consumer behaviour, competition among firms, and government policy. Cases and problems will illustrate how economic concepts can be applied to improve corporate strategies. Credit units: 3 ECTS Credit Units: 6, Prerequisite: senior standing. Aut (S. Özylımm)

MAN 403  International Business
International Business differs in important ways from business conducted within national borders. It presents additional critical challenges for managers interested in trade or investments in foreign countries, but it also offers new opportunities in foreign markets. This course emphasizes the use of analytical tools and develops a framework for analyzing the decisions that must be made by organizations interested in doing business internationally. In turn, this framework provides the basis for formulating strategies, structures, and processes that will enable such organizations to succeed in the international business environment. Concepts and knowledge from strategy, international finance, international trade and investment, cross-cultural issues, international politics and law, marketing, human resource management, and other related areas will be combined and focused on how to succeed international business. Credit units: 3 ECTS Credit Units: 6, Prerequisite: MAN 335. Aut (T. S. Kiessling)

MAN 404  Investment Analysis
The main objective of this course is to help students develop a basic understanding of the theory and practice of investment analysis. The characteristics of financial markets and financial instruments, security trading mechanisms, investment process, pricing models, equity and bond valuation are studied. Students apply what they learn in class to the Istanbul Stock and Bond Markets. Credit units: 3 ECTS Credit Units: 6, Prerequisite: IE 342 or MAN 321. Aut (Z. Önder) Spr (Z. Önder)

MAN 406  Business Strategy
Business strategy refers to the long-term direction and scope of a firm's activities. This course serves as a comprehensive overview of the analytical tools, methods, and processes of developing, implementing, and evaluating business strategy. From the perspective of top-level management, the course examines how resources and competences of firms are identified and leveraged to create long-term direction and sustainable competitive advantage within their competitive, industry, and macro environmental contexts. Credit units: 3 ECTS Credit Units: 6, Prerequisite: MAN 321 and MAN 335 and MAN 341. Aut (T. S. Kiessling) Spr (T. S. Kiessling)

MAN 407  Business Plan Development
This course focuses on business plans as a necessary element of starting a business and also prepares the students to participate in business planning in large institutions. The course will go through the process of preparing successful business plans including determining the contents of a plan and reviewing an actual plan. The course will be designed to help the students to incorporate the contents of the core management courses. Upon the completion of the course the students are expected to analyze and prepare the components of a business plan. Credit units: 3 ECTS Credit Units: 6, Prerequisite: MAN 321 and MAN 335. Spr (Ö. T. Baycan)

MAN 408  Fundamentals of Entrepreneurships Management
As a field of activity that involves creation of new business entities, entrepreneurship plays a key role in providing dynamism and growth to local, regional and national economies. Serving as an introduction to entrepreneurship, this course provides a comprehensive survey of the nature and dynamics of a wide spectrum of entrepreneurial activities at the individual and firm levels. Among these activities are marketplace opportunity recognition, business vision creation, resource acquisition and configuration, and start-up foundation and management for sustainable value creation and delivery. By taking this course, students will both gain knowledge of contemporary theoretical advances made in entrepreneurship research and use this scholarly body of work to approach and analyze actual entrepreneurial practice. As a result, students will be able to recognize and conceptualize entrepreneurship as distinct economic activity; identify and evaluate various phases and activities in entrepreneurial
MAN 410  Innovation Management

Despite the increasing importance of innovation to competitive advantage of organizations in today's world, few companies master the ability to identify, create and exploit opportunities for innovation on a systematic basis. In this course, all aspects of managing innovation, from recognizing the need and desire to be creative and innovative, using imagination to add value, developing structures, systems and incentives that encourage and implement innovation, will be discussed. The course will center on three themes: ideation/creativity generation techniques, innovation (models, dimensions, degrees and sources of innovation) and strategic management of innovation. In line with these topics, real company cases will be presented and discussed so that students will better understand the leadership and corporate entrepreneurship in managing innovation.  

Credit units: 3 ECTS Credit Units: 6, Prerequisite: MAN 321 and MAN 335.

MAN 414  Auditing

The primary objective of the course is to distinguish between accounting and auditing through familiarizing the students with the basic auditing concepts. Topics such as types of audits and auditors, audit reports for financial statements, professional ethics, evidence accumulation and verification procedures, internal control and auditing engagements are discussed.  

Credit units: 3 ECTS Credit Units: 6, Prerequisite: MAN 213 and MAN 312.

MAN 415  Intermediate Accounting

This course is the first professional level course for undergraduate students who want to prepare for a career in accounting or financial management. It covers concepts, requirements, and standards of external financial reporting, and methods of presentation. The focus is on international concepts of external financial accountability and not the specific standards of any specific country. Students must have had a previous course in financial reporting with a grade of at least a C, or equivalent.  

Credit units: 3 ECTS Credit Units: 6, Prerequisite: MAN 213 and MAN 312.

MAN 416  Financial Statement Analysis

This course aims to develop an ability to analyze financial information as an aid to financial decision making. The emphasis will be on the usefulness of information for various groups, such as investor's of the firm, security analysts and creditors. Basic financial statement analysis tools, such as ratio analysis, cross-sectional and time-series analysis, statistical forecasting models will be covered. Part of this course will be devoted to the research and empirical evidence on the impact of financial statement information on asset pricing, efficiency of the capital markets, debt ratings and corporate restructuring.  

Credit units: 3 ECTS Credit Units: 6, Prerequisite: MAN 213 and MAN 321.

MAN 417  Entrepreneurial Marketing

Entrepreneurial Marketing (EM) integrates critical aspects of marketing and entrepreneurship into an effective approach to marketing for small resource-constrained businesses and entrepreneurial ventures operating in emergent markets. The course focuses on marketing strategies that would enable resource leveraging (doing more with less), proactive orientation and customer value creation. In turn, this focus requires a non-formulaic way of thinking and acting, thus EM differs from conventional marketing as it returns to the disciplines roots as a creative pursuit. The imagination, vision, cleverness, and originality associated with entrepreneurial behavior lie at the core of this approach to marketing and these attributes are applied to the full range of marketing activities, from segmentation to the management of the marketing mix. The course brings together theoretical perspectives and practical sensibilities with the goal of developing your skills in conception, development, and execution of a marketing strategy under conditions of severe resource limitations.  

Credit units: 3 ECTS Credit Units: 6, Prerequisite: MAN 335.

MAN 419  Marketing Strategy and Innovation

Marketing Strategy and Innovation integrates critical aspects of marketing and innovation, and presents marketing as a strategic process driven by value creation for customers. The course focuses on the design and management of all elements of business necessary to define, develop and deliver customer value in the challenging environment of global competition and rapidly changing markets. The course brings together theoretical and practical perspectives with the goal of developing students' skills in conception, development, and execution of a marketing strategy that would allow a firm to serve its customers in a profitable and sustainable way.  

Credit units: 3 ECTS Credit Units: 6, Prerequisite: MAN 335.

MAN 421  Capital Markets and Institutions

MAN 421 is an introductory course on the theory and practice of financial intermediation. Upon successful completion of the course, students will be able to: analyze how changing economic conditions and regulations are affecting financial institutions in the world and in Turkey; read and interpret financial statements of commercial banks; recognize and analyze the risks that financial institutions face; understand how financial markets (such as bond markets and stock markets) operate.  

Credit units: 3 ECTS Credit Units: 6, Prerequisite: MAN 321.
MAN 422   International Finance
This course introduces financial issues associated with the operation of a firm in the international environment. Specifically, the workings of the foreign exchange markets, the impact of economic policy on exchange rates, the nature of foreign exchange risk, and important aspects of financial management of the multinational corporation will be introduced. The connection to current events as reported in newspapers and journals will be emphasized. 
Credit units: 3 ECTS Credit Units: 6, Prerequisite: consent of instructor. Spr (S. Özyldın, T. Savager)

MAN 424   Risk Management
This course aims to introduce the risk management and the derivatives markets. The concept of risk management and the question of why risk management is vital for modern financial institutions will be explored. The topics will include forwards, futures, swaps, options, hedging and portfolio insurance, value at risk. 
Credit units: 3 ECTS Credit Units: 6, Prerequisite: MAN 321. Spr (A. Sahih)

MAN 425   Corporate Financial Strategy
The primary objective of “Corporate Financial Strategy” is for students to understand the implications of financial theory in real situations (cases) and to be able to analyze and communicate the implications of their analyses to an informed audience. The course outline is organized to include major strategic decisions of corporations such as real options, mergers, restructuring, risk management as well as corporate governance and international finance. A second objective is for students to function in teams for case studies and presentations. A final objective is for students to refine and expand specific skills and use of financial analytical tools in a real-world context. 
Credit units: 3 ECTS Credit Units: None, Prerequisite: MAN 321. B. Esmer)

MAN 430   Anthropological Marketing
Students learn how to do qualitative research in order to understand markets and consumers. Quoting from a textbook (Mariampolski), “ethnography, with its focus on observed everyday behavior, is quickly becoming the method of choice to identify unmet needs, stimulate novel insights, and create strategies for developing new ideas.” The students do research, employing ethical and effective field practices, as well as use the research for marketing and business decisions. The research assignments will also enhance writing and presentation skills. 
Credit units: 3 ECTS Credit Units: 6, Prerequisite: MAN 335. Aut (G. Ger)

MAN 432   Consumer Behavior
A study of the nature and determinants of consumer behavior. Examines how individuals and groups acquire, consume and dispose of goods, and explores the influence of various psycho-sociological factors, such as personality, cognitive characteristics, beliefs, social class and culture on the formation of consumers’ attitudes and purchasing behavior. To enhance understanding and prediction of marketplace behavior; and emphasizes the applications to the development, evaluation and implementation of marketing strategies. 
Credit units: 3 ECTS Credit Units: 6, Prerequisite: MAN 335 or consent of instructor. Aut (O. Kavets)

MAN 433   Global Marketing and Emerging Markets
Application of marketing concepts and methods to the international marketplace. Problems and decisions involved in marketing across national boundaries are discussed. While focusing on the export marketing, some of the other topics covered include the international environment, export market selection, export market entry strategies, export marketing mix decisions, financing and methods of payment, and the export order and physical distribution. 
Credit units: 3 ECTS Credit Units: 6, Prerequisite: MAN 335. Aut (A. Ö. Sandikçi Türkdoğan)

MAN 434   Integrated Marketing Communications
This course introduces students to various tools such as advertising, sales promotions, and sponsorships, that marketers use while communicating with their customers. The emphasis rests on strategic planning and development of marketing communications campaigns, their integration and evaluation. The course combines theory and practice and aims to develop analytical skills necessary for effectively assessing and managing communication needs of companies operating in today’s competitive business environment. 
Credit units: 3 ECTS Credit Units: 6, Prerequisite: MAN 335. Spr (Sahil)

MAN 436   Services Marketing
The aim of this course is to provide strategic insights to the marketing managers of service firms. To realize the previously given objective, the course focuses on the unique characteristics of service products that differentiate them from manufactured goods and classifies services according to many different variables such as the nature of the service act, method of service delivery. Then, alternative strategies that can be executed to achieve organizational objectives by the marketing managers of different types of service firms are discussed in detail. 
Credit units: 3 ECTS Credit Units: 6, Prerequisite: MAN 335. Spr (A. Ekici)

MAN 439   New Product Development
In this course, focus is on the tools and techniques associated with analyzing market opportunities and then designing, testing, and introducing new products and services. Both quantitative and qualitative approaches are covered. In particular, the course covers the new product development process, market entry strategies, how to generate new product ideas, mapping customer perceptions, segmentation, product positioning, forecasting market demand, and product design. The course emphasizes how to incorporate consumers, customers and competitors into all of these aspects of the company’s new product development. It is intended for students who...
are interested in working on new product innovations, both in entrepreneurial firms and in established companies. Credit units: 3 ECTS Credit Units: 6, Prerequisite: MAN 335. Aut (D. Kandemir)

MAN 440 Revenue Management
Revenue management is concerned with two types of demand decision: quality (how to allocate capacity to different market segments, when to withhold a product from sale etc.) and price (how to set prices, how to price across product categories, over time etc.). This course aims to introduce students to the tools and conceptual frameworks of revenue management and its applications in diverse industries such as tourism, hospitality, manufacturing and fashion. Credit units: 3 ECTS Credit Units: 6, Prerequisite: (ECON 101 and ECON 225) or (ECON 101 and MAN 256).

MAN 444 Special Topics in Finance
The most obvious manifestation of global financial instability is the current banking crisis that began in the U.S. but spread swiftly to Europe, other developed nations, and some developing economies. The creation of exotic financial instruments, the presence of unregulated participants in global markets such as hedge and private equity funds, the failure of rating agencies to properly evaluate novel financial instruments, and the search for higher returns without properly accounting for risk were some of the evident contributors to the crisis, resulting in severe write-offs and even the failure of some of the most visible and highly respected institutions in the financial universe. This course will begin with an extensive and intensive examination of the 2007 crisis of the late ’90’s and the Turkish crisis of ’94. Furthermore, the absence of international financial architecture to prevent global crises, the inability or unwillingness of national regulatory bodies to intervene proactively, and the actions of regulators to mitigate national financial problems will then be examined. Credit units: 3 ECTS Credit Units: 6.

MAN 446 Supply Chain Management
This course covers the essential elements of Supply Chain Management, which consist of controlling and coordinating all the activities that take place from the raw material purchasing to the end customer satisfaction; such as order processing, purchasing, material storage and handling, production scheduling, packaging, transportation and setting customer service standards. How these activities are successfully modeled, planned, and controlled in manufacturing and service industries are addressed. The decisions and strategies regarding transport and inventory, which are the most important parts of Business Logistics for a firm, are highlighted. The course is augmented with case studies to facilitate discussion and to gain an understanding of basic principles. Credit units: 3 ECTS Credit Units: 6, Prerequisite: MAN 341. Spr (N. Çolmez Dolgan)

MAN 447 Project Management
The role of projects in organization is getting more important as they become the major tool for reaching strategic goals. This course provides an integrative view of project management. Topics include project selection, project organization, budgeting and cost estimation, progress and performance measurement and evaluation, and project auditing. Project planning and control techniques, such as CPM and PERT, are also covered. Credit units: 3 ECTS Credit Units: 6.

MAN 451 Decision Analysis
This course is designed as an introduction to the basic concepts, principles and methods of decision making under uncertainty; and covers decision trees as a modeling tool. Role and value of information in decision making is discussed, as well as the concept of risk, and modeling risk attitudes with utility theory. Measuring utility functions, and alternatives to utility theory are also discussed. Credit units: 3 ECTS Credit Units: 6, Prerequisite: ECON 221 and MAN 256. Aut (A. Kocabıyıkolu)

MAN 462 Human Resources Management
In this course, an academic understanding of human resource management (HRM) is aimed to be given to students who have little or no prior knowledge of the area. The development of HRM as an academic field is critically explored in its historical context, emphasizing the differences between personnel management and more contemporary approaches such as HRM. Various functions and dimensions of HRM are defined and discussed, by using case studies and real examples both from Turkey and other countries. Current issues around HRM are also explored. The course eventually aims to simulate answers to the following questions: firstly, why HRM is one of the most significant management functions, and secondly, who does HRM in organizations. This course will be suitable for senior students who want to extend their background in HRM before actually going into the business world, whether or not they plan to work as specialists in this area. Credit units: 3 ECTS Credit Units: 6, Prerequisite: MAN 262.

MAN 467 Cross-Cultural Management
This course is designed for persons who expect to do business in an unfamiliar country or interact with people from other cultures. It recognizes the importance of becoming consciously aware of the fundamental cultural differences that determine everyday life as well as business practice. It is based on the literature of cultural anthropology and applies it to such practical matters as negotiation, the role of deadlines and a culture’s sense of time, the structure of organizations, business ethics and corruption, stress management, and business etiquette. Specific countries as well as general principles are discussed. Student groups will investigate a culture of their choice and present their findings to the class. Their written reports will be collected into a Cultural Handbook.
This course covers the theoretical foundations of modern financial economics. The focus is on financial markets and the valuation of financial claims traded in those markets, under discrete time models. Topics analyzed include models of consumption and investment decisions under uncertainty; risk aversion; stochastic dominance; mean variance theory; equilibrium models of asset pricing (CAPM, ICAPM, APT); linear multifactor models; and incomplete markets. Credit units: 3 ECTS Credit: 6. Prerequisite: MAN 321 and MAN 335 and MAN 341. Aut (A. Ö. Örge) Spr (A. Ö. Örge).

MAN 509 International Business
This course will provide an understanding of international business as an essential part of Globalization. The international business environment will be evaluated in economic, cultural, political, and legal aspects to explore how international businesses are initiated and conducted. Economic Integration among nations will be discussed with emphasis on Europe. Methods of entry into foreign markets via licensing, franchising, joint ventures, and foreign direct investment will be reviewed providing actual real life examples. Credit units: 3 ECTS Credit: 6. Spr (l. Demirkan)

MAN 525 Financial Economics
This course covers the theoretical foundations of modern financial economics. The focus is on financial markets and the valuation of financial claims traded in those markets, under discrete time models. Topics analyzed include models of consumption and investment decisions under uncertainty; risk aversion; stochastic dominance; mean variance theory; equilibrium models of asset pricing (CAPM, ICAPM, APT); linear multifactor models; and incomplete markets. Credit units: 3 ECTS Credit: 6. Spr (A. Salih)

MAN 555 Probability and Statistics
This course reviews the basic principles of probability and statistics prior to their development in more specialized quantitative research methods. It also provides a short introduction to some simple methods of data presentation and exploration, and some standard statistical tests. Topics include probability rules, distributions, densities, random variables, limit theorems, sampling distributions, estimations and basics of hypothesis testing. Credit units: 3 ECTS Credit: 7.5.
MAN 590  Pro-Thesis Seminar  
Credit units: None  ECTS Credit Units: None. Aut (Z. Önder)

MAN 591  Independent Study I  
Credit units: 3 ECTS Credit Units: 6.

MAN 593  Research Paper I  
Credit units: None  ECTS Credit Units: 3. Aut (Z. Önder)

MAN 594  Research Paper II  
Credit units: None  ECTS Credit Units: 3. Aut (Z. Önder)

MAN 599  Master's Thesis Project  
Credit units: None  ECTS Credit Units: 22. Aut (Z. Önder)

MAN 604  Quantitative Business Research  
The course covers various aspects of survey designs and analysis issues including sampling questionnaire design and construction, interviewing techniques and analytical strategies of survey data, a general survey of social science research techniques. Experimental and non-experimental research designs, measurement theory, reliability and validity, and an overview of statistical evaluation procedures are discussed.  Credit units: 3 ECTS Credit Units: 7.5.

MAN 605  Qualitative Research  
This course aims to introduce students to the philosophical foundations, design, conduct, and presentation of qualitative research. Issues of quality and methods of data collection, analysis, and interpretation will be emphasized. The course focuses on enabling students to experience the research process in the course of learning how to plan, execute, and evaluate qualitative research. Assignments and a term project provide experience and practice in data collection, analysis, and presentation. In this way, the role of various creative skills, including oral and written skills, in gathering, interpreting, and reporting on qualitative data are also emphasized. The seminar aims to provide an opportunity for learning from each other and by interacting with others in the class while students present materials and critically evaluate and discuss the readings. Students are encouraged to develop research relevant to dissertation or other projects of interest.  Credit units: 3 ECTS Credit Units: 8.

MAN 607  Philosophy and Epistemology of Scientific Inquiry  
This seminar aims to introduce students to the philosophical and epistemological foundations of science and scientific inquiry, fundamental issues distinguishing positivist versus post positivist approaches to research, and the types and issues of research design. Following a study of philosophy of science, epistemological issues, and alternative approaches, methodology and design (surveys, experiments, interpretive research) issues are discussed. Assignments, presentations, and term papers provide exposure to fundamental issues as well as practice in critical reading and thinking about a) scientific inquiry, b) evaluation (“goodness”) of research, and c) research methodology. The seminar provides an opportunity for thinking through and presenting well-developed thoughts about issues of science and research and learning from each other while students present and discuss the readings.  Credit units: 3 ECTS Credit Units: 8.

MAN 627  Seminars in Corporate Finance  
It is a doctoral seminar course covering major theories and empirical studies that have been developed in the area of corporate finance. The aim is to teach a class that will generate research ideas.  Credit units: 3 ECTS Credit Units: 7.5.

MAN 628  Seminars in Investment Theory  
It is a doctoral seminar course covering major theories and empirical studies that have been developed in the area of investment theory. The aim is to teach a class that will generate research ideas.  Credit units: 3 ECTS Credit Units: 7.5.

MAN 631  Marketing Theory  
This course aims to develop fundamental knowledge of and about marketing as a field of study and provoke critical thinking about the field. Readings and discussions examine the historical development of marketing thought and theory, as well as contemporary issues, alternative perspectives, and critical insights. The course considers the philosophical foundations of marketing practice and marketing thought and issues of scholarship and science in marketing. The course is interactive and involves critical discussion of the readings during both lectures and student presentations. Students search for possible dissertation topics and develop a preliminary dissertation proposal.  Credit units: 3 ECTS Credit Units: 6.

MAN 633  Seminar in Marketing Strategy  
This course is designed to provide doctoral students with a foundation in marketing strategy research. This course will identify, review, and critique a variety of theoretical perspectives that can be applied to areas including firm capabilities, marketing channels, strategic alliances, and firm boundaries.  Credit units: 3 ECTS Credit Units: 6.
MAN 634 Consumer Behavior Theory I
This course deals with the understanding of the behavior, attitudes, preferences and decision making processes of people as consumers and psychological theories underlying consumer behavior. Some strategic implications of consumer preference formation, judgment and decision making are also addressed. Understanding consumers is a critical component of marketing to implement efficient marketing strategies. Principles from psychology as well as other social sciences are integrated to analyze consumer behavior. Credit units: 3 ECTS Credit Units: 7.5.

MAN 636 Consumer Behavior Theory II
This course details with the understanding of the behavior, attitudes, preference and decision making processes of people as consumers and the psychological theories underlying consumer behavior. Some strategic implications of consumer preference formation, judgment and decision making are also addressed. Understanding consumers is a critical component of marketing to implement efficient marketing strategies. Principles from psychology as well as other social sciences are integrated to analyze consumer behavior. Credit units: 3 ECTS Credit Units: 7.5.

MAN 639 Special Topics in Marketing I
This doctoral seminar covers major theories and studies in selected areas in the marketing field. The course reviews historical and contemporary approaches in the area and aims equip students with knowledge useful in generating research ideas. Credit units: 3 ECTS Credit Units: 6.

MAN 640 Special Topics in Marketing II
This doctoral seminar covers major theories and studies in selected areas in the marketing field. The course reviews historical and contemporary approaches in the area and aims equip students with knowledge useful in generating research ideas. Credit units: 3 ECTS Credit Units: 6.

MAN 656 Advanced Multivariate Statistics
The objective of this course is to introduce tools for multivariate analysis including multivariate ANOVA, principle components analysis, discriminant analysis, cluster analysis, factor analysis, structural equations modeling, canonical correlations and multidimensional scaling. Credit units: 3 ECTS Credit Units: 6.

MAN 699 Ph.D. Dissertation
Credit units: None ECTS Credit Units: None. Aut (Z. Önder)

MBA 500 Bilcamp
This is an extended MBA orientation. It will be used to review some background that is important for the program, as well as team building. It will be run as a one-credit orientation course during the week before classes start in September. Possible skills components to be included are calculus review, basic statistics, intermediate excel (modeling), presentation skills, group skills (team work), research skills, leadership skills and emotional intelligence. Credit units: 1 ECTS Credit Units: 1. Aut (S. Özyildirim)

MBA 502 Macroeconomics
Macroeconomic conditions play important roles in managers’ decision and firm performances. For instance aggregate income, unemployment and inflation affect profitability, borrowing rates and investment plans of the firms. The topics that will be introduced are: economic growth, unemployment, inflation, money demand and supply, interest rates, balance of payments, foreign exchange markets and exchange rates. Credit units: 3 ECTS Credit Units: 6. Spr (L. Akdeniz)

MBA 503 Microeconomics
This course summarize the theory and practice of microeconomics for managers. Theory of the consumer and the firm are the primary areas of the course. In addition, different market structure (perfect competition, monopolistic competition, oligopoly and monopoly), choice under uncertainty and some topics in financial economics will be covered. Credit units: 3 ECTS Credit Units: 6. Aut (L. Akdeniz)

MBA 504 Financial Risk Management
This course is a graduate level course focusing on the instrument of financial risk management. After taking this course participants will be able to understand the economic functions of derivatives markets and where they fit within the financial intermediation process. More specially they will develop an understanding of the basic instruments like futures, forwards, options and some commonly used exotic derivatives. The course also aims to develop a working knowledge of the hedging strategies that could be implemented by the instruments introduced in the course. Credit units: 3 ECTS Credit Units: 6. Aut (A. Salih)

MBA 505 Special Topics in Marketing
Credit units: 2 ECTS Credit Units: 4.

MBA 511 Accounting
In this course, students will be able to aware the need for accounting records and reports and the basic principles underlying the accounting cycle and preparation of financial statements. Emphasis is given to accounting as an aid to managerial decision making. In addition, topics such as budgeting, funds flow and the basics of cost accounting are discussed. Credit units: 3 ECTS Credit Units: 6. Aut (N. Akman)
MBA 512  Managerial Accounting
The course focuses on the information development and analysis, presenting and communicating information to make it useful, and bring in accounting, financial and business information into the decision process. As students learn the fundamental concepts of management accounting, an attempt is made to identify problems with current accounting and managerial conventions. Credit units: 2 ECTS Credit Units: 4. Aut (N. Akman)

MBA 513  Financial Statement Analysis
This course introduces the tools of financial and credit analysis. Analysis of the relation between financial accounting data and firm performance is emphasized. Characteristics of accounting ratios and their relations to market and industry factors, time series behavior of earnings and forecasting models are also investigated. Credit units: 2 ECTS Credit Units: 4. Aut (N. Akman)

MBA 519  Financial Institution and Markets
In this course, the history, structure and functions of financial institutions (banks, insurance companies, mutual funds, etc.) as well as central banking are introduced. The existence of money, financial intermediaries, financial markets and the necessity of regulations are discussed within domestic and global context. Topics include why banks and other financial institutions exist, how asset prices are determined, what is the risk and term structure of interest rates and what is efficient market hypothesis. All major markets and their respective financial instruments are studied to develop necessary quantitative tools for sensible decision making in an increasingly global economy. Credit units: 3 ECTS Credit Units: 6. Aut (A. B. Tanyeri)

MBA 522  Corporate Finance
A course in the theory of corporate finance with emphasis on investment and financing decisions of the firm. Topics include valuation, capital budgeting, capital structure, cost of capital, dividend policy, financial statement analysis, profit planning, financial forecasting, and working capital management. Credit units: 3 ECTS Credit Units: 6. Prerequisite: MBA 511. Spr (K. Aydoğan)

MBA 524  Investment Analysis
Risk and return characteristics of various investment instruments such as common stocks, bonds, convertibles and options are considered. Modern portfolio theory is discussed and related concepts are used in constructing portfolios for individual and institutional investors. Alternative portfolio management strategies and financial analysis and valuation of corporate securities are also covered. Credit units: 3 ECTS Credit Units: 6. Spr (Z. Önder)

MBA 531  Marketing Research
After a brief review of the examination of marketing information needs and resources including the collection and dissemination of primary and secondary data, this course focuses on quantitative research in marketing. More specifically, this course discusses problem definition, research design, sampling techniques, data collection and analysis. An overview of methods of measuring consumer reactions to project characteristics, effectiveness of advertising, and other promotional devices are also discussed. Credit units: 3 ECTS Credit Units: 6.

MBA 532  Marketing Management
Survey of the marketing concept, consumer behavior, segmentation, marketing research, competitive analysis, and marketing decisions involving products, price, distribution and promotion are discussed in this course. Analytical, strategic and decision making aspects are emphasized. Cases are used for application of the principles discussed. Credit units: 3 ECTS Credit Units: 6. Spr (G. Ger)

MBA 535  Consumer Behavior I
This course introduces micro aspects of consumer behavior and its implications for marketing strategy. Students will be able to discuss consumer needs and motivations, exploring both the rational and emotional bases of consumer actions. Moreover, students will be able to aware how consumers learn, store and recall information about products, form attitudes and make decisions about consumption activities. Credit units: 3 ECTS Credit Units: 6. Aut (G. Ger)

MBA 539  Services Marketing
Services Marketing deals with the challenges of marketing and managing services and delivering quality service to customers. This course is applicable to both organizations whose core product is service (e.g., banks, hotels, insurance, healthcare, and educational institutions) and to organizations that rely on service excellence for competitive advantage (e.g., automotive, industrial products, etc.). By the successful completion of this course, students will be able to demonstrate an understanding of the fundamental concepts and terminology used in services marketing, describe and utilize the important services framework (i.e. the GAP model), and identify and apply appropriate marketing tools to services context. Credit units: 2 ECTS Credit Units: 4.

MBA 542  Production and Operations Management
This course familiarizes the student with the nature and content of methods of quantitative analysis employed in production/operations management decision making; enables him/her to identify, formulate and solve operations management problems that s/he may encounter in his/her professional careers. Course themes include strategic
spreadsheet models and spreadsheet-based software packages will be used extensively. linear, discrete, and non-linear optimization and simulation modeling, as well as multi-criteria optimization. topics include project selection, project organization, budgeting and cost estimation, and project auditing. credit units: 2 ECTS Credit Units: 4.

MBA 546 Supply Chain Management
This course introduces the essential elements of Supply Chain Management, which consist of controlling and coordinating all the activities that take place from the raw material purchasing to the end customer satisfaction; such as order processing, purchasing, material storage and handling, production scheduling, packaging, transporting and setting customer service standards. Students will be able to aware how these activities are successfully modeled, planned, and controlled in manufacturing and service industries. They will also discuss decisions and strategies regarding transport and inventory, the most important parts of Business Logistics for a firm. The course is augmented with case studies to facilitate discussion and to gain an understanding of basic principles. credit units: 3 ECTS Credit Units: 6. Spr (N. Çakmaz Dolgan)

MBA 548 Project Management
In this course, students familiarizes the project management area from a management perspective. Topics include project selection, project organization, budgeting and cost estimation, and project auditing. Project planning and control techniques, such as CPM and PERT, are also covered. credit units: 2 ECTS Credit Units: 4.

MBA 551 Probability and Statistics
Uncertainty is a key concept in business decision making. Given the incomplete information in their environments, business decision makers are confronted with the challenging task of making “good” decisions in the face of uncertainty and risk. Probability provides the mathematical language of uncertainty; while statistics provides a toolbox for the collection, analysis and synthesis of data to aid in decision making. Within this framework, this course aims to provide the concepts and principles of a variety of introductory statistical tools and techniques. The emphasis of this course is on the themes of testing hypothesis, correlation and regression, analysis of contingency tables, analysis of variance, and time series. credit units: 3 ECTS Credit Units: 6. Aut (C. D. Yenigün)

MBA 553 Data Models and Decisions
This course introduces students to the techniques of management science and models to think structurally about decision problems, make more informed management decisions, and enhance decision-making skills. Topics include linear, discrete, and non-linear optimization and simulation modeling, as well as multi-criteria optimization. Spreadsheet models and spreadsheet-based software packages will be used extensively. credit units: 3 ECTS Credit Units: 6. Aut (E. Erel)

MBA 555 Markets and Cultures
Students are exposed to the cultural analysis of markets and study how markets work in interaction with culture. The aim is to explore the relationships among markets, culture, economics, and politics, all of which surround businesses/organizations. In the internationalizing markets of the global world, students need to understand cultural dynamics and interactions among cultures. The course entails a group project through which students learn how to do ethnographic research, written and oral presentation, as well as enhance their skills in reflexivity. credit units: 3 ECTS Credit Units: 6.

MBA 556 Strategic Acquisitions: Identification, Negotiation and Post-Merger Integration
The mission of this course is to survey the drivers of success in mergers and acquisitions (M&A) and develop your skills in the design and evaluation of these transactions. The student will develop an instinct for the problems and opportunities in an M&A situation. This course highlights elements in the structure and process of every M&A transaction that deserve professional scrutiny. Strategic analysis is the core skill in M&A and is supplemented by analyses of strategy, dilution, financing, and risk management. The course will exercise analytics in these areas. Designing a transaction requires skills of analysis and negotiation. We will survey a number of analytic tools, and then exercise them and your presentation skills in a “pitch book” exercise. The work in this course
In addition, students will be taught how to evaluate and prepare the components of a business plan. The course aims to teach students about the design process and the important leadership skills needed. We will survey some strategic frameworks useful in M&A, and the steps necessary to translate a concept into a solid proposal. 

**MBA 557 New Venture and Business Plan Development: Entrepreneurship and Intrapreneurship**

This course is designed to help develop a business plan for a new firm or a new product in an established firm. The class will integrate entrepreneurial, finance, accounting, operations management, human resources, marketing, and strategy to develop a successful business plan for success. By the end of the class, the student will be able to develop their own business plan for a new idea to present to investors, or a new product launch that will be presented to top management for possible approval. The same approach can be utilized for new ideas within a department to launch for a student's future. 

**Credit units: 2 ECTS Credit Units: 4.**

**MBA 561 Management**

Managing successfully in the chaotic and dynamic world of 21st Century business demands a wide range of management skills and understanding. This course familiarizes students with these new skills and understandings in its three major components: (1) The Fundamentals of Modern Management: concepts, theories, and models of effective management. (2) Competing by Design: organizational structure as the critical tool for implementing corporate strategies. (3) The Management of Organizational Behavior in order to achieve a competitive advantage. 

**Credit units: 4 ECTS Credit Units: 8.**

**Aut (A. Ö. Örge)**

**MBA 562 Human Resource Management**

Human resource management (HRM) is one of the major functional areas in management. It is now widely accepted that all managers need to be aware of HRM to successfully deal with various managerial issues. In this course, it is aimed to give MBA students with little or no prior knowledge of HRM an academic understanding of the subject. The development of HRM as an academic field is critically explored in its historical context, with a special emphasis on the differences between personnel management and HRM. Various functions and dimensions of HRM (i.e. recruitment and selection, training and development, performance management, etc.) are defined and discussed, by using case studies and real examples both from Turkey as well as from abroad. Contemporary issues around HRM (e.g. discrimination and diversity, downsizing, industrial relations, etc.) are also explored. Upon successful completion of the course, students will be able to answer the following questions: Firstly, why and how is HRM one of the most significant management functions? and secondly, who does HRM in organizations? 

**Credit units: 3 ECTS Credit Units: 6.**

**Spr (Staff)**

**MBA 563 Group Processes and Team Dynamics**

This course is designed to introduce students to the structural characteristics of teams including types of teams, size, composition, team roles and norms. The emphasis will be on team building and development, team design and effectiveness. Exercises, assessment tools and group activities will provide students with the opportunity to gain insight and practice team-based skills. Case illustrations will further help students to discover the challenges in teamwork. 

**Credit units: 3 ECTS Credit Units: 6.**

**MBA 565 Business Ethics**

In this course individual, organizational, and macrolevel issues in business ethics are examined. The course aims to increase ethical awareness and it is designed to assist the student as a potential businessperson to make more informed ethical decisions. To accomplish this objective, ethical issues and dilemmas that managers and organizations may face are discussed and both descriptive and normative models of unethical and ethical decision making in business are analyzed. 

**Credit units: 2 ECTS Credit Units: 4.**

**MBA 566 Entrepreneurship and Innovation Management**

This course covers approaches to the study of entrepreneurship and discusses challenges that companies face in identifying, creating and exploiting opportunities for innovation on a systematic basis. Within this context, family businesses and the private sector development and innovation in Turkey will also be explored. 

**Credit units: 3 ECTS Credit Units: 6.**

**MBA 576 Business Plan Development**

This course concentrates on business plans as an essential part of starting a business and also demonstrates business plans including determination of the contents and will include the assessment of actual plans. Upon the completion of the course, students will be able to incorporate the contents of the core management courses. In addition, students will be prepared and evaluate the components of a business plan. 

**Credit units: 2 ECTS Credit Units: 4.**

**MBA 579 Behavioral Dynamics of Organizations**

This course is designed to provide a background for understanding the behavioral dynamics of organizations. The course aims to provide students with an overview of the different topics and issues that guide and explain behavior (in organizations) that in turn influence the functioning, success and failure of organizations. The primary goal of this course is to improve understanding of how individuals behave in organizational settings through a comprehensive analysis of the essential topics of organizational theories and management. In doing so, the emphasis of the course will be on approaching these issues from a managerial standpoint and will concentrate
on individual, group and organizational level implications of the aforementioned behavioral dynamics. 

**Credit units: 3 ECTS Credit Units: 6.**

**MBA 582 New Product Design and Marketing**

New products and services are vital to the success of all companies and their brands. However, innovation is risky and most new products fail in the marketplace. Ineffective marketing is the primary cause of new products failures whose financial impact to the economy is significant. Thus, expertise in the marketing and design of new products is a critical skill for all managers, inside and outside of the marketing department. In this course, we focus on the tools and techniques associated with analyzing market opportunities and then designing, testing and introducing new products and services. Both quantitative and qualitative approaches are demonstrated. In particular during the course, students will analyze real case studies and competitive team projects to apply the new product development process, market entry strategies, how to generate new products ideas, mapping customer perceptions, segmentation, product positioning, forecasting market demand, and product design. 

**Credit units: 3 ECTS Credit Units: 6.**

**MBA 584 Special Topics in Business Administration**

Each semester a different topic is covered in this course. Examples include E-commerce, product Design and Brand Planning. 

**Credit units: 2 ECTS Credit Units: 4.**

**MBA 585 Special Topics in Marketing**

The course will explore in-depth a current topic in the marketing field. The topic will be based on students interest and availability of school resources. 

**Credit units: 3 ECTS Credit Units: 6.**

**MBA 589 Hands on Project Management**

This course is based on a new approach to teaching project management-A simulator that simulates the dynamic stochastic nature of modern project management. We use a software tool, the Project Team Builder (PTB) that combines an interactive, dynamic case study and a simple yet effective Project Management System to provide an environment for teaching and practicing the tools and techniques used for managing dynamic stochastic multiple projects. 

**Credit units: 2 ECTS Credit Units: 4.**

**MBA 591 Business Strategy**

Business strategy is concerned with managing the competitive position and long-term development of the enterprise in order to ensure its survival and success. In this capstone course, students will be able to synthesize the previous training in functional areas to address the evaluation, formulation and implementation of corporate and business level strategies in relation to the firm's environment. Students also acquire familiarity with the principal concepts, frameworks, and techniques of corporate and business strategy and strategic management; gain expertise in applying these concepts, frameworks, and techniques in order to discuss the reasons for good or bad performance by an enterprise; and generate, evaluate and recommend strategy options for an enterprise. 

**Credit units: 4 ECTS Credit Units: 8.** 
*(T. S. Kiessling)** 
*(J. Couvas)*

**MBA 592 Business Practice**

The business practice course will require students to either complete a management consulting project or a business plan for an organization (company, government branch, NGO, or non-profit enterprise). Projects will be completed in groups of three or four. In this course, students will be able to propose a structured analysis, a decision support tool, a report, and/or other deliverables dictated by the organization in their terms of reference with the students. 

**Credit units: 4 ECTS Credit Units: 8.**
*(Prerequisite: MBA 591.)*
*(S. Özyıldırım)*

**MBA 599 Summer Training**

The minimum time for this practice in an organization is six weeks (30 working days). The main objectives is to observe a company in an original setting and answer questions on the fundamental areas of Business Administration. A written report summarizing the training experience is required. 

**Credit units: 2 ECTS Credit Units: 4.**

**MBA 602 MBA Project**

This course is designed to guide students to study a business related-research topic. Students must complete a written project during this course. 

**Credit units: None ECTS Credit Units: None.**
*(S. Özyıldırım)*

**MBA 631 Markets and Competition**

Competitive Marketing Strategy is a rigorous course that focuses on the vital skills that all business managers need to know in order to create winning strategies as you face competitive forces at the product and service level. The premise of the course is that firms are successful when they implement strategies that create and capture value. Thus, the objectives of the course are to learn how to (a) analyze competition, category, company, customers and consumers in specific marketplace situations; (b) create strategies that maximize competitive advantages in gaining economic profit; and (c) formulate plans to implement those strategies. You'll not just be developing strategy; you will also learn to become a strategy critic when you serve on an executive board examining, questioning and voting on another student team's strategic plan for a case study. In addition, you
will gain valuable experience as you fine-tune verbal and written presentation skills. The course consists of lectures and case presentations. Topics covered include both the process and content of strategic action and interaction; measuring and mapping value; strategic models; brands and other major sources of competitive advantage; methods for comparing competitive offers and strategies; scenario analysis; competitive signaling and competitive intelligence. Credit units: 2 ECTS Credit Units: 4.

MBA 671 Growth Through Globalization: Creating and Managing the International Enterprise
The purpose of this course is to familiarize students with the knowledge and skills of how to apply management theory and practical tools used by managers in the process of the globalization of the enterprise, whether an MNC or SME, already established internationally or aspiring at entering foreign markets. The course covers the key aspects of international expansion, from opportunity evaluation to decision making in the selection of target countries; political analysis affecting forms of market-entry; quantitative and qualitative success factors; implementation project management in a multicultural and multiple stakeholder environment; day-to-day management challenges; and investment considerations. It also addresses particularities of competition in the global marketplace, strategic and operational focus similarities and differences between selected industry sectors, and highlights new possibilities for revenue growth through penetration of emerging markets. Credit units: 2 ECTS Credit Units: 4.

MBA 672 Leadership for International Managers
This course aims at familiarizing students with the knowledge and skills for recognizing leadership patterns and developing competencies and attitudes that will enhance their own competitiveness in the corporate arena and contribute to developing their personal managerial styles. It combines management theory and practical tools used by managers to carve a leading role for their organizations? Whether commercial enterprises or not-for-profit organizations? in the global environment, taking into consideration the impact of cultural diversity and the increasing importance of the emerging markets on drawing and implementing international strategies successfully. Credit units: 2 ECTS Credit Units: 4.

MBA 673 International Business Strategy
Business conducted internationally entails the consideration of a far greater range of variables and associations than business conducted in the home country. Accordingly, in this course, students are able to learn their environment, markets, institutions, challenges, strategy, and operations of international and cross-cultural business. Upon conclusion of this course, students should: (a) become sensitized to the urgency and challenges of international business for the contemporary enterprise; (b) have substantial understanding of fundamentals of international business with respect to major world markets, their environments and consumers; (c) understand basic managerial requirements for the successful performance of firms in international business; (d) be able to fit in quickly and perform in the international business operations of any firm. Credit units: 2 ECTS Credit Units: 4. Aut (Staff)

MBA 676 Globalization Branding and Emerging Markets
This course focuses on the impact of globalization on the emerging markets and examines the marketing strategies of domestic and foreign firms operating in emerging economies. The course consists of three subsections: the consumptioncape and business environment of the emerging markets; the multinationals operating in the emerging markets; emerging giants - opportunities, risks, and strategic alternatives facing emerging market companies. All three sections are supported by cases. Credit units: 3 ECTS Credit Units: 6, Prerequisite: MBA 532.

MBA 677 Negotiating Skills for International Executives
This course aims at familiarizing the students with knowledge and skills to understand the dynamics of cross-cultural negotiations in the global business environment and apply in practice proven techniques in a variety of circumstances. After an initial skill assessment of the participants, theory and cases inspired from real-life situations alternate in order to immerse the participants and equip them with first hand experience. role playing, feed-back, self-evaluation, and multi-media aids are some of the pedagogical tools used. One-on-one, multiparty, cross-border, government, mediation, alternate conflict resolution approaches are addressed, to degrees tailored to the profile and needs of the students. The topic of negotiations in the work-place for personal achievement is also covered. Assignments are used for ongoing evaluation, and final examination is in the form of a short essay. Credit units: 2 ECTS Credit Units: 4.

MBA 678 Applied International Business
This course aims of providing 2nd year MBA students with field experience in a foreign state, in the form of an educational trip, during which they will have the opportunity to observe and analyze foreign companies and institutions dealing with issues relevant not only locally, but internationally. In such context, students will hone the functional and strategic academic knowledge and skills acquired in their MBA studies and better understand how business and economic situations are addressed in different cultural environments. Credit units: 2 ECTS Credit Units: 4.
MBA 679  Managing Trough Social Media x Networks
The course will examine the value of social media and networking to managers and companies, looking at this phenomenon from different angles—business, socio-economic, political, technological, regulatory. Guest speakers with experience on the subject will complement the understanding of social communications and interactions. The aim for the completion of the course is that students, individually or in small groups, will develop a business project in which social media will play a key role. Credit units: 5 ECTS Credit Units: 4.

EMBA 502  EMBA Project
This course is designed to guide students to study a business related-research topic. Students must complete a written project during this course. Credit units: None ECTS Credit Units: None.

EMBA 510  Foundations of Management and Human Resources in Organizations
Foundations of Management: The participants of this course will be able to identify and analyze the theories, approaches, concepts, knowledge, techniques, applications, and skills necessary and helpful to manage business organizations in a global and complex environment, where stakeholders, ethics and social responsibility have become important topics and issues. Organizational Behavior: The participants of this course will be able to recognize and discuss individual behavior, interpersonal relationships and intergroup relations in organizational settings; conceptual tools for analyzing and understanding behavior; improvement of individual, group and organizational performance and the manager’s role. Human Resources Management: In this course, the participants will be able to define and discuss various functions and dimensions of HRM by using case studies and real examples both from Turkey and other countries. Current issues around HRM are also explored. The course eventually aims to simulate answers to the following questions: firstly, why HRM is one of the most significant management functions, and secondly, who does HRM in organizations. Credit units: 8 ECTS Credit Units: 16. Aut (A. Salih)

EMBA 511  Organizational Processes and Strategic Management
Organizational Processes: This course is designed as a survey of the following core organizational processes: organizational structuring; learning in organizations; innovation and change; symbolic and cultural organizational processes; and, organizational power and politics. In this context, the course primarily aims to contribute to the level of awareness and knowledge of these processes. Strategic Management: The participants of this course will develop knowledge skills and abilities concerning the fundamentals in strategic management. The general objectives of functioning of the strategic management are to introduce to the key principles of strategic management, develop an understanding of the concepts, skills, and abilities that make strategies successful, develop an awareness of the critical importance of industry and competition analysis, develop knowledge and skills for evaluating strategic options in corporate growth decisions, involve in a variety of activities that will develop the ability to apply the concepts. Credit units: 4 ECTS Credit Units: 8.

EMBA 520  Law
The aim of this course is to have the participants to define and discuss the obligation law, formation and validity of legal transactions; In addition, the participants will learn the basic concept of commercial enterprises law and negotiable instruments law, partnerships and corporations, different aspects of public companies, principals of bankruptcy law, forcing of payments of debts, order of payment, forced sale and bankruptcy, legality, sources and application of the criminal laws. Credit units: 5 ECTS Credit Units: 16. Aut (A. Ö. Örge)

EMBA 530  Economics
Fundamentals of Macroeconomics: The participants will be able to recognize the macroeconomic environment in which businesses operates. They will define and discuss economic growth; unemployment; inflation; money supply; money demand; interest rates; trade; balance of payments; and exchange rates in order to analyze and to examine the functioning of the economy. Financials Markets and Institutions: Upon successful completion of this course participants will examine the role and functioning of the capital and money markets as a device for the allocation of resources, the channeling of investable funds, and reallocation of risk. They will also discuss the function of financial intermediaries operating in these markets, and international financial relations. International Finance and Turkish Economy: The participants will have an understanding of how and through which channels international financial environment affects the local economy. They will be able to discuss the international monetary system, trade balance, balance of payments, adjustment mechanisms, parity conditions, exchange rate determination, forward-looking market instruments (options, forwards, futures), interest rate and exchange rate risk management and financial crisis. Credit units: 2 ECTS Credit Units: 4.

EMBA 531  Accounting
Financial Accounting: The participants of this course will be able to analyze accounting records and reports and the basic principles underlying the accounting cycle and preparation of financial statements. Emphasis is given to accounting as an aid to managerial decision making. In addition, the participants will be able to discuss topics such as budgeting, funds flow and the basics of cost accounting are discussed. Managerial Accounting: The aim of the course is to introduce the participants to the main issues in management accounting. Special emphasis will be put on decision making at different levels of management, and on data and reports to facilitate the decision making process. Topics covered include: cost volume profit analysis, cost behavior, costing systems, budgeting, unit cost calculations, pricing, variance analysis, responsibility accounting and performance
evaluation. Financial Statement Analysis: The participants of this course will be able to develop an ability to analyze financial information as an aid to financial decision making. The emphasis will be on the usefulness of information for various groups, such as investor's of the firm, security analysts and creditors. Basic financial statement analysis tools, such as ratio analysis, cross-sectional and time-series analysis, statistical forecasting models will be covered. Credit units: 4 ECTS Credit Units: 8. Aut (N. Akman)

EMBA 532 Corporate Finance
Valuation and Financial Mathematics: This course is intended to serve as a basic introduction to financial mathematics. The participants will have a perspective on the valuation of financial instruments (futures, options, etc.) and their risk-management. The purpose of the course is to introduce participants to the stochastic techniques employed in derivative pricing. Corporate Finance: The participants of this course will be able to identify and discuss valuation, capital budgeting, capital structure, cost of capital, dividend policy, financial statement analysis, profit planning, financial forecasting, and working capital management. Risk Management: Upon successful completion of this course the participants will be able to define and discuss the concept of risk management and the question of why risk management is vital for modern financial institutions will be explored. The topics will include forwards, futures, swaps, options, hedging and portfolio insurance, value at risk. Credit units: 3 ECTS Credit Units: 6.

EMBA 540 Decision Making
Probability and Statistics: This course is intended to introduce a framework for thinking about problems involving uncertainty and, building on this framework, and developing tools for analyzing and interpreting data. Spreadsheet Modeling and Simulation: This course introduces the spreadsheet tools that are specifically useful in business life. The participants will be able to demonstrate proficiency in these tools including conditional formatting, data validation, what-if analyses (data tables and goal seek), filtering and pivot tables, financial functions, and an introduction to macros. An introduction to simulation and mathematical modeling using spreadsheets (solver tables) will also be covered. Management Information Systems: The participants of this course will learn how to use and manage information technologies to revitalize business processes, improve business decision making, and gain competitive advantage. Particular emphasis is placed on Internet technologies that provide a platform for business collaboration processes among all stakeholders in today’s networked enterprises and global markets. The course is built on five major areas of information systems knowledge needed by business professionals: Foundation Concepts, Information Technologies, Business Applications, Development Processes, and Management Challenges. Managerial Decision Making: Managerial decision making draws on insights from psychology, economics and management to provide a realistic portrayal of human judgment and decision making. Founded on descriptive and prescriptive approaches, the participants of this course will be able to define and discuss models in decision making, heuristics and biases, individual vs group decision making, and apply tools for decision support. Credit units: 3 ECTS Credit Units: 6. Aut (A. Salih)

EMBA 541 Operation Management
Operations Management: This course addresses the management of operations in manufacturing and service firms. The participants will be able to discuss and analyze topics like determining the size and type of production process, purchasing the appropriate raw materials, planning and scheduling the flow of materials and the nature and content of inventories, assuring product quality, and deciding on the production hardware and how it gets used, comprise this function of the company. Project Management: The role of projects in organization is getting more important as they become the major tool for reaching strategic goals. The participants of this course will have an integrative view of project management. Topics include project selection, project organization, budgeting and cost estimation, progress and performance measurement and evaluation, and project auditing. Supply Chain Management: This course covers the essential elements of Supply Chain Management, which consist of controlling and coordinating all the activities that take place from the raw material purchasing to the end customer satisfaction; such as order processing, purchasing, material storage and handling, production scheduling, packaging, transportation and setting customer service standards. The participants will be able to discuss how these activities are successfully modeled, planned, and controlled in manufacturing and service industries. Innovation and Technology Management: This course covers the concept of innovation management, the relationship between technology transfer and innovation, operational management principles. Quality Management: The participants of this course will be able to define and discuss major analytical techniques and concepts of quality assurance. Topics also include quality assurance programs in service organizations and economic design of quality control systems. Product Development/Technology Process Selection: In this course, major issues and challenges faced by new product and process development teams are discussed Credit units: 5 ECTS Credit Units: 10. Aut (A. Salih)

EMBA 550 Marketing Management
Marketing Management: Participants will specifically be exposed to subjects regarding customer analysis, competition analysis, market positioning and market plan. Product and Brand Management: Participants will specifically be exposed to subjects regarding brand identity, brand image, brand design, brand value and brand expansion. Consumer Behavior and Research: The participants of this course will be able to examine how individuals process information and make decisions; discuss the influence of psychosocial factors such as personality, small groups, demographic variables, social class and culture on the formation of consumers' attitudes and
purchasing behavior. Demand Forecasting and Revenue Management: The participants of this course will be able to recognize the ways of providing the right product to the right customers at the right time at the right price. More specifically, the participants will be equipped with a demand management tool that helps the firm to manage its interface with the market. Credit units: 4 ECTS Credit Units: 8. Spr (G. Ger, A. Salih)

EMBA 551 Marketing Strategy

Integrated Marketing Communications: Marketing Communication is probably the most dynamic part of the marketing mix. The participants will be able to discuss the features and advantages of integrated marketing communications (IMC) including communication elements and how they should be tightly interwoven for the successful management of a brand. Strategic Planning and Competition: This course will help participants to understand the relationships between competition and marketing strategies. More specifically, those who successfully complete this course will comprehend the relationship between marketing and competition, understand the basics of sustainable competitive advantage, and will be able to apply the principles of game theory into strategic marketing planning. Distribution Channels and Sales/Retail Management: Participants will specifically be exposed to functions of marketing channels, marketing channel alternatives, organization and interaction in the marketing channel and with the identification of sales opportunities, management of sales force, coordinating sales with other marketing processes and planning, designing and managing retail operations. International Marketing: The participants of this course will be able to discuss the application of marketing concepts and methods to the international marketplace, problems and decisions involved in marketing across national boundaries. While focusing on the export marketing, some of the other topics covered include the international environment, export market selection, export market entry strategies, export marketing mix decisions, financing and methods of payment, and the export order and physical distribution. E-Commerce: The main purpose of the course is to initiate the development of the strategic analytical and decision making skills in organizations (small or large) that are being impacted by emerging digital technologies. Credit units: 3 ECTS Credit Units: 6. Spr (G. Ger, A. Salih)
The Faculty of Economics, Administrative, and Social Sciences comprises five academic departments:

- Economics
- History
- International Relations
- Political Science and Public Administration
- Psychology

The Departments of Economics, International Relations, and Political Science offer programs leading to Bachelor's, Master's, and Doctor of Philosophy degrees, while the Department of History has only a graduate program leading to M.A. and Ph.D. degrees. The Department of Psychology offers a Bachelor's degree program.

**ACADEMIC STAFF**

**Michelle Marie Adams**, Associate Professor  

**John James Alexander**, Assistant Professor  

**Jedediah Wilfred Papas Allen**, Assistant Professor  
Ph.D., Lehigh University, 2012.

**Ersel Aydönül**, Associate Professor  

**Çihsan Çiçek Arıtürk**, Assistant Professor  

**Gamze Baray**, Instructor  

**Hakan Berument**, Professor  

**Ahmet Beyatli**, Instructor  
Ph.D., Management, University of Baghdad, 1994. Arabic.

**Ali Bilgiç**, Assistant Professor  

**Hatice Pınar Bilgin**, Associate Professor (on leave)  

**Hüseyin Boyaci**, Associate Professor  

**Hasan Toğrul Bolukbasi**, Assistant Professor  
Selver Buldanlioğlu Şahin, Assistant Professor  

Berrak Burçak, Assistant Professor  

Nur Bilge Criss, Assistant Professor  
Ph.D., History, George Washington University, 1990. Modern History, Ottoman History, Turkish Foreign Policy, Contemporary History, Cold War History.  

Alev Çınar, Visiting Professor  

Çerag Esra Çuhadar Gürkaynak, Assistant Professor  

Nuh Aygün Dalkıran, Assistant Professor  
Ph.D., Managerial Economics and Strategy, Kellog School of Management, Northwestern University, 2012.  

Katja Doerschner, Assistant Professor  
Ph.D., Experimental Psychology, New York University, 2006. Perception of surface material, including color, in complex environments, perception of shape and motion.  

Özer Ergenc, Visiting Professor  

Fatma Tahire Erman, Associate Professor  
Ph.D., Environmental Psychology, City University of New York, 1993. Rural to urban migration, squatter housing and gender.  

Nilgün Fehim Kennedy, Instructor  
Ph.D., Sociology, Middle East Technical University, 2005. Sociology.  

Tore Fougner, Assistant Professor  

Onur Gökçe, Senior Lecturer  
B.S., Faculty of Political Science, Ankara University, 1962. Turkish Foreign Policy, Diplomatic Language.  

Ioannis N. Grigoriadis, Assistant Professor  
Ph.D., Turkish Politics, University of London, 2005. Turkish Politics, European Politics.  

Gül Gümaydın, Assistant Professor  
Ph.D., Social and Personality Psychology, Cornell University, 2013. Interpersonal cognition, impression formation, close relationships and mental representations of close relationship partners, affect regulation.  

Serdar Ş. Güner, Associate Professor  

Refet Soykan Gürkaynak, Associate Professor  

Jale Gürzumar, Instructor  
M.B.A., Middle East Technical University, 1986. Business administration.  

Kevin Edward Hasker, Assistant Professor  
Banu Helvacıoğlu, Adjunct Senior Lecturer
Ph.D., Political Studies, Queen’s University, 1988. Politics of identity, European concepts, political theory.

Metin Heper, Professor
Ph.D., Public Administration, Syracuse University, 1971. Turkish politics, comparative state politics and bureaucracy.

Clemens Maximilian Hoffmann, Assistant Professor

Ferhad Hüseyin, Associate Professor (on leave)
Ph.D., Mathematics, Moscow State University, 1976. Mathematical economics, game theory.

Hande Ilgaz, Assistant Professor

Rahmi İlkılıç, Assistant Professor

Halil İbrahim İnalçık, Professor
Ph.D., History, Ankara University, 1942. Ottoman history.

Başak İnce, Instructor
Ph.D., Political Science, University of London, 2008. Turkish politics, Comparative politics.

Pınar İpek, Assistant Professor

Aida Just, Assistant Professor (on leave)

Daniel Just, Assistant Professor (on leave)
Ph.D., Comparative Literature, New York University, 2005. Sociology of Literature, political theory, Cold War culture.

Mehmet Kalpaklı, Assistant Professor
Ph.D., Turkish Literature, University of Washington/Istanbul University, 1992. Ottoman literature and cultural history, Near Eastern languages and literature, modern Turkish literature, theory of literature, use of computers for humanities.

Tarık Kara, Assistant Professor
Ph.D., Economics, University of Rochester, 1996. Game theory, social choice theory, mathematical economics.

Türkan Mine Kara, Instructor
Ph.D., Economics, Hacettepe University, 2002. Methodology in economics, history of economic thought, economic development.

Emin Karagözoglu, Assistant Professor

Mehmet Nedim Karakayalı, Assistant Professor

Eugenia Kermeli Ünal, Instructor
Ph.D., History, University of Manchester, 1996. Late Byzantine and early Ottoman institutional history.

Sırın Hakan Kırımlı, Associate Professor
Mehmet Akif Kireçci, Assistant Professor  
Ph.D., University of Pennsylvania, 2007. Middle Eastern Modernization; Orientalism.

Edward Parliament Kohn, Assistant Professor  

Semih Koray, Visiting Professor  
Ph.D., Mathematics, Boğaziçi University, 1980. Mathematical economics.

Ayşe Ezel Kural Shaw, Visiting Professor  

Paul Latimer, Assistant Professor  
Ph.D., History, Sheffield University, 1982. Medieval European history.

Cadoc Douglas Auld Leighton, Associate Professor  

David Michael Lewis, Assistant Professor  
Ph.D., Psychology, University of Texas, 2013. Bridge social, personality and evolutionary psychology with behavioral genetics to offer a novel paradigm for investigating personality traits as evolved solutions to distinct social problems.

Syed Fahri Mahmud, Visiting Associate Professor  
Ph.D., Economics, McMaster University, 1986. Econometrics, applied econometrics, macro economics.

Can Emir Mutlu, Assistant Professor  
Ph.D., University of Ottawa, 2013. Critical security studies, International political sociology, technology, practices, and materialities of global mobility regimes.

Carnot E. Nelson, Visiting Professor  

Bilin Neyapti, Associate Professor  
Ph.D., Economics, University of Maryland, 1997. Macroeconomics, monetary economics, institutional economics.

 Çağla Ökten Hasker, Associate Professor  

Saime Özcüremez Bülbüksel, Assistant Professor  

Elisabeth Margareta Özdağıa, Visiting Professor  
Ph.D., sociology, Gothenburg University, Sweden, 1979. Historical sociology, religious and national identities, Turkish politics.

İbrahim Özgür Özdamar, Assistant Professor  
Ph.D., Political Science, University of Missouri-Columbia, 2006. International Relations Theory, Foreign Policy Analysis, Research Methods, American Foreign Policy, Black Sea Politics.

Oktay Özel, Assistant Professor  
Ph.D., History, University of Manchester, 1993. Ottoman socio-economic history, demographic changes, methods and problems in historical writings.

Cavit Pakel, Assistant Professor  

Fitnat Banu Pakel, Assistant Professor  
Ayşe Özgür Pehlivan, Assistant Professor  
Ph.D., Pennsylvania State University, 2011. Microeconomics, international trade, empirical industrial organization, applied microeconometrics.

Evgeniy Radoslavov Radushev, Visiting Assistant Professor  
Ph.D., History, Bulgarian Academy of Sciences, 1982. Ottoman diplomatics and paleography, Ottoman socio-economic, political and ethnocultural history.

Hüseyin Çağrı Sağlam, Assistant Professor  

Jeremy Mills Salt, Visiting Associate Professor  
Ph.D., Middle Eastern History, Melbourne University, 1980. Middle Eastern studies.

Zeki Sarıkil, Assistant Professor  
Ph.D., Political Science, University of Pittsburgh, 2007. Turkish Politics, comparative Politics.

Selin Sayek Böke, Associate Professor  

Nida Shoughry, Assistant Professor  
Ph.D., International Politics, Aberystwyth University, 2010. The Israeli-Palestinian/Arab conflict, history and politics of the Middle East, Media and politics, Islam and politics, critical approaches to terrorism, social movements and resistance and social movement theory.

Norman Stone, Professor  

Nil Seda Şatana, Assistant Professor  
Ph.D., Political Science, State University of New York (SUNY), 2006. Inter and Intra-State Conflict, Civil-Military Relations, Terrorism.

Zerrin Tandoğan, Instructor  
Ph.D., Anthropology, Hacettepe University, 1991. Social anthropology, international migration, multi-cultural relations, research ethics, student mobility.

Fatma Taşkın, Associate Professor  

Saime Tek, Assistant Professor  

Ann-Marie Thornton, Instructor  

David E. Thornton, Assistant Professor  

Sübidey Togan, Professor  

Mirza Trokic, Assistant Professor  

Dimitri Tsarouhas, Assistant Professor  
Ph.D., Politics, University of Sheffield, 2005. European Integration, Political Economy, EU-Turkey Relations.

Fikret Nesip Üçcan, Instructor  

Kenneth Weisbrode, Assistant Professor  
Ph.D., History, Harvard University, 20th Century American diplomatic history.
Paul Andrew Williams, Assistant Professor

Alp Eringen Yeldan, Professor (on leave)

Kemal Yıldız, Assistant Professor

Mehmet Tamer Yigit, Associate Professor

PART-TIME ACADEMIC STAFF

Ömer Altay, Graduate Diploma, University of Essex, 1974.

Deniz Altınbaş, Ph.D., Political and Social Sciences, Gazi University, 2007.

İnci Apaydın, M.S., Operations Research, Middle East Technical University, 1989.


Volkan Çetinkaya, Ph.D., Economics, Rutgers University, 2007.

Erkan Doğan, Ph.D., Political Science, Bilkent University, 2010.

Mehmet Ali Oktan Doğan, B.A., Department of Political Science and Public Administration, Bilkent University, 2006.

İsmail Hakkı Doğuankaya, Ph.D., Logistics, Dokuı Eylül University, 2009.


Duygu Ersoy, Ph.D., Political Science and Public Administration, Middle East Technical University, 2012.

Güneş Ertan, Ph.D., Public Policy and International Development, University of Pittsburgh, 2013.

Athina Gkouti, Ph.D., European Politics, Aberystwyth University, 2011.

Hacı Hüluşî Kafalıgönül, Ph.D., Electrical and Computer Engineering, University of Houston, 2007.

Gökkuğ Kara, Ph.D., International Relations, Bilkent University, 2008.


Tamer Kulaksızoğlu, Ph.D., Economics, Econometrics, Purdue University, 2004.

Jermaine Ma, M.A., Cross Cultural Studies, Fuller Graduate school of Intercultural Studies, 2009.


Nedret Özkan, Ph.D., Clinical Psychology, Ankara University, 1996.

İbrahim Mert Öztürk, M.A., International Affairs and Public Policy, Bilkent University, 2004.

Nedret Pamir, B.Sc., Petroleum Engineering, Middle East Technical University, 1980.


Hasibe İnci Rösch, Ph.D., University of Washington, 1984.

Özlem Sert, Ph.D., Institut für Geschichte und Kultur de Nahen Orients sowie Turkologie, Ludwig-Maximilians University, 2008.


Nazi Şenses, Ph.D., Political Science, Bilkent University, 2011.

Zeynep Tüzün, Ph.D., Clinical Psychology, Hacettepe University, 2006.

Meral Uğur Çınar, Ph.D., Political Science, University of Pennsylvania, 2012.

Emine Ulaşan Özgüle, Ph.D., Social Psychology, Middle East Technical University, 2011.


Mehmet Süha Unsal, M.A., History, Akdeniz University, 1996.
Şebnem Yardımcı Geyikçi, Ph.D., Government, University of Essex, 2013.
Harun Yeni, Ph.D., Ottoman History, Bilkent University, 2013.
Aslı Yiğit, M.A., Political Science, MGIMO Moscow University, 2009.

GENERAL SOCIAL SCIENCE COURSES

SOC 101 Introduction to Sociology
Introduces students to the subject matter, major concepts, and theoretical approaches of sociology. Includes readings in the works of both classical and modern theorists. Emphasis is on social organization and stratification, community, power, social change. Credit units: 3 ECTS Credit Units: 5. Aut (E. Doğan, M. A. O. Doğan, N. Fehim Kennedy, J. Gürzumar, J. Ma, E. M. Özdağla, H. İ. Rösch, M. Uğur Çınar, Ş. Yardımcı Geyikçi) Spr (N. Fehim Kennedy, H. İ. Rösch)

HIST 200 History of Turkey
This course focuses on aspects of Turkey’s history with an emphasis on research. It is designed as an interactive course with the objective to investigate events, chronologically short historical periods, as well as historic representations. Credit units: 4 ECTS Credit Units: None. Aut (S. Erkoç, A. Özer, I. M. Öztürk, Ö. Sert, M. Ünal, M. S. Ünsal, H. Yeni, A. Yiğit) Spr (Staff)
Economics is the study of the behavior of economic units, institutions and systems and the choices that they make with respect to the allocation of scarce resources between production and consumption. It is concerned with a wide range of problems that directly affect society: the causes of unemployment and inflation, productivity and economic growth, foreign debt and trade links, and the role of government in market economies.

UNDERGRADUATE PROGRAM

The program leading to the Bachelor's degree in Economics combines training in technical economics with opportunities for a broad and balanced undergraduate education. The program aims to give the students a solid grounding in modern economic theory and accompanying skills necessary for independent and critical thinking which will allow them to acquire an understanding of the Turkish and the world economy. The aim is achieved through a flexible curriculum which is structured to provide the basic social science and quantitative toolbox necessary for all economists in the first two years, followed by a student-tailored curriculum in the last two years during which the students choose a track of study they prefer to complete under economics. These tracks cover all general economics fields including Academics Economics Track which aims to prepare students for a highly quantitative graduate study, Macroeconomics Track which emphasizes topics about the workings of the macroeconomy such as monetary and international economics, Microeconomics Track which focuses on the decision making of individuals and firms in depth, Managerial Economics Track which capturing the synergy issues between management and economics, and finally a General Economics Track which allows the students to explore cross tracks during their studies. All of these general tracks are supported by a range of free electives allowing students to becoming well-rounded social scientists and furthermore university graduates.

UNDERGRADUATE CURRICULUM

<table>
<thead>
<tr>
<th>FIRST YEAR</th>
<th>Credits / ECTS Credits</th>
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<tbody>
<tr>
<td>AUTUMN SEMESTER</td>
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<tr>
<td>CS 123 Introduction to Computing and Programming for Social Sciences</td>
<td>3 / 6</td>
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<tr>
<td>ECON 101 Introduction to Economics I</td>
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<tr>
<td>ENG 101 English and Composition I</td>
<td>3 / 6</td>
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<td>GE 100 Orientation</td>
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<tr>
<td>MATH 105 Introduction to Calculus I</td>
<td>4 / 7</td>
</tr>
<tr>
<td>TURK 101 Turkish I</td>
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<td>Unrestricted Elective</td>
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<tr>
<td>SPRING SEMESTER</td>
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<tr>
<td>ECON 102 Introduction to Economics II</td>
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<tr>
<td>ENG 102 English and Composition II</td>
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<tr>
<td>MATH 106 Introduction to Calculus II</td>
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<tr>
<td>TURK 102 Turkish II</td>
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<td>100 Level Social Science Elective</td>
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<tr>
<td>ECON 203 Microeconomic Theory I</td>
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<td>ECON 205 Macroeconomic Theory I</td>
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<td>Course Code</td>
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<tr>
<td>ECON 221</td>
<td>Introduction to Probability and Statistics I</td>
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<tr>
<td>ECON 225</td>
<td>Mathematics for Economists</td>
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<tr>
<td>GE 250</td>
<td>Collegiate Activities Program I</td>
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<td>HCIV 101</td>
<td>History of Civilization I</td>
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**Spring Semester**

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<tbody>
<tr>
<td>ECON 204</td>
<td>Microeconomic Theory II</td>
<td>3 / 6</td>
</tr>
<tr>
<td>ECON 206</td>
<td>Macroeconomic Theory II</td>
<td>3 / 6</td>
</tr>
<tr>
<td>ECON 222</td>
<td>Introduction to Probability and Statistics II</td>
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<tr>
<td>GE 251</td>
<td>Collegiate Activities Program II</td>
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<tr>
<td>HCIV 102</td>
<td>History of Civilization II</td>
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<td>HIST 200</td>
<td>History of Turkey</td>
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**Autumn Semester**

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<td>ECON 301</td>
<td>Econometrics I</td>
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<td>ECON 363</td>
<td>History of Economic Thought</td>
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**Spring Semester**

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<tr>
<td></td>
<td>Economics Electives (2)</td>
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<td>Restricted Elective</td>
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<td>Unrestricted Electives (2)</td>
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**Third Year**

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<tr>
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<tr>
<td></td>
<td>Economics Elective</td>
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<td></td>
<td>Restricted Elective</td>
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<td></td>
<td>Transdisciplinary Senior Project</td>
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<tr>
<td></td>
<td>Unrestricted Elective</td>
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**Spring Semester**

<table>
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<tr>
<th>Course Code</th>
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<td></td>
<td>Economics Electives (2)</td>
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<tr>
<td></td>
<td>Restricted Elective</td>
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</tr>
<tr>
<td></td>
<td>Unrestricted Electives (2)</td>
<td>6 / 12</td>
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</tbody>
</table>

**Fourth Year**

**Elective Requirements**

Regardless of the track a student has chosen, the elective composition of each student should adhere to the following quotas:

1. One 100 level social science elective.
2. Five restricted electives.
3. Eight unrestricted electives.
4. Six Economics electives.
5. One Transdisciplinary Senior Project.

**Minor Program**

The Minor program in Economics is offered to students who are interested in economics but hold primary interests in other fields. Economics is the study of the allocation of resources and provides an understanding of a very wide range of issues that one faces both in their daily personal operations and in their careers. By arming the students with the theoretical toolkit as well as the basics of...
empirical analysis, and allowing the application of this expanded toolbox in a field elective course, the Minor program in Economics promotes the intellectual growth of the individual student and contributes to them becoming better citizen as well as better professionals. The minor is not only useful for students in fields other than economics that may wish to continue their education with a graduate degree in economics but also for those who wish to prepare for a MBA, graduate studies in other social sciences including law, international relations, public policy and finally in quantitative analysis.

Prerequisite Courses:

MATH 102 Calculus II or MATH 106 Introduction to Calculus II or MATH 114 Multi Variable Calculus

One of the below requirements

* ECON 101 Introduction to Economics I and ECON 102 Introduction to Economics II
* ECON 103 Principles of Economics
* ECON 107 Principles of Microeconomics and ECON 108 Principles of Macroeconomics

CURRICULUM

<table>
<thead>
<tr>
<th>Courses</th>
<th>Credits / ECTS Credits</th>
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<tbody>
<tr>
<td>ECON 203 Microeconomic Theory I</td>
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</tr>
<tr>
<td>ECON 204 Microeconomic Theory II</td>
<td>3 / 6</td>
</tr>
<tr>
<td>ECON 205 Macroeconomic Theory I</td>
<td>3 / 6</td>
</tr>
<tr>
<td>ECON 206 Macroeconomic Theory II</td>
<td>3 / 6</td>
</tr>
<tr>
<td>ECON 222 or ECON 301</td>
<td>3 / 6</td>
</tr>
<tr>
<td>Elective (Any 300 or 400 level ECON Course)</td>
<td>3 / 6</td>
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</table>

GRADUATE PROGRAMS IN ECONOMICS

Graduate programs in economics aim to train students to enable them to carry out independent research. For this purpose, the programs are designed to ensure that the students get a solid background in both economic theory and the techniques used in empirical research. While the Department offers both M.A. and Ph.D. degrees, the M.A. degree is considered, in principle, as an intermediate step that is passed en route to the Ph.D. The core requirements common to both programs leave little room for choosing the courses to be taken in the first year, but the students are offered considerable flexibility as to their choice of the fields of specialization later on.

Students admitted to graduate studies in the department are expected to have a strong background in undergraduate level economics and some training in mathematics and statistics. Sufficient (though not necessarily a pre-condition) background would consist of an undergraduate degree in Economics, a year-long calculus sequence that includes multivariate analysis, a course in linear algebra, and a course in probability and statistics. (Also refer to the “Graduate Admissions” section in the introduction of this catalog for the general graduate admission requirements.)

Master of Arts in Economics

The curriculum aims to prepare the students toward a Ph.D. degree. However, elective courses and a thesis study in the 2nd year gives the students the opportunity to over take practical training, preparing them for jobs in the government or private sector.

Prospective students must have completed Bilkent University’s requirements for a Bachelor of Arts degree in Economics or approximately equivalent training. Since students will be required to take the same courses as the Ph.D. candidates, similar preparation in mathematics and statistics is generally expected. Degree requirements for Master of Arts in Economics are:

1. The core curriculum for Master of Arts in Economics degree must be successfully completed. The courses in the core curriculum for Master of Arts in Economics include the graduate level Mathematics Review course (ECON 500), Microeconomic Theory (ECON 503-504),
Macroeconomic Theory (ECON 505-506), Mathematics for Economists (ECON 515-516), Probability and Statistics (ECON 509-510), Research Paper (ECON 595-596) sequences, two elective sequences, and Pro-thesis Seminar (ECON 590) and the Master’s Thesis (ECON 599) courses.

2. A Master’s thesis must be submitted and successfully defended.

3. A grade point average of at least 3.00 must be maintained for the duration of Master’s level work.

CURRICULUM OF MASTERS PROGRAM

<table>
<thead>
<tr>
<th>Courses</th>
<th>Credits / ECTS Credits</th>
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<tbody>
<tr>
<td>ECON 503 Microeconomic Theory I</td>
<td>4 / 7</td>
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<tr>
<td>ECON 504 Microeconomic Theory II</td>
<td>4 / 7</td>
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<tr>
<td>ECON 505 Macroeconomic Theory I</td>
<td>4 / 7</td>
</tr>
<tr>
<td>ECON 506 Macroeconomic Theory II</td>
<td>4 / 7</td>
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<tr>
<td>ECON 509 Probability and Statistics I</td>
<td>4 / 6</td>
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<tr>
<td>ECON 510 Probability and Statistics II</td>
<td>4 / 6</td>
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<tr>
<td>ECON 515 Mathematics for Economists I</td>
<td>3 / 6</td>
</tr>
<tr>
<td>ECON 516 Mathematics for Economists II</td>
<td>3 / 6</td>
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<tr>
<td>ECON 591 Masters Pre-Thesis Seminar I</td>
<td>- / -</td>
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<tr>
<td>ECON 592 Masters Pre-Thesis Seminar II</td>
<td>- / -</td>
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<tr>
<td>ECON 595 Research Paper I</td>
<td>- / -</td>
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<tr>
<td>ECON 596 Research Paper II</td>
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<tr>
<td>ECON 599 Master’s Thesis</td>
<td>- / -</td>
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<tr>
<td>GE 590 Academic Practices</td>
<td>- / -</td>
</tr>
<tr>
<td>Electives (2)</td>
<td>6 / 12</td>
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</tbody>
</table>

Doctor of Philosophy in Economics

The Ph.D. program in economics is a program requiring the attainment of scientific competence in conformity with international scientific standards. Admission to the doctoral program is by written application and an evaluation by the department. It is expected that admitted students will be adequately prepared in calculus, linear algebra, and statistics. (Also refer to the “Graduate Admissions” section in the introduction of this catalog for the general graduate admission requirements.)

All students take a common core curriculum at the outset and later branch out in the desired fields of specialization. The fields may be chosen from fiscal economics, international economics, macroeconomics, mathematical economics, monetary economics, and econometrics. Well-prepared students should anticipate spending approximately two years in course work and another two years in seminars, independent study, and dissertation research. While exceptional progress may make a three-year program feasible, some types of research programs will require at least five years to complete.

A candidate for the doctorate degree must:

1. Successfully complete the core curriculum for Ph.D. degree in Economics. The courses in the core curriculum for Ph.D. degree in Economics include the graduate level Mathematics Review course (ECON 500), Microeconomic Theory (ECON 503-504), Macroeconomic Theory (ECON 505-506), Mathematics for Economists (ECON 515-516), Probability and Statistics (ECON 509-510) sequences, two elective sequences, and Pro-thesis Seminar (ECON 590) and the Ph.D. Dissertation (ECON 699) courses.

2. Successfully complete the course requirements for Ph.D. degree by earning at least 24 credits from the courses listed under “Graduate Electives”. (Some graduate courses offered by other departments may be counted towards this requirement.)

3. Show competence in two comprehensive examinations in macroeconomics and microeconomics within the first three semesters after being admitted to the Ph.D. program.
4. Submit a detailed thesis proposal while taking the ECON 699 course and give a seminar on this work.

5. Submit and successfully defend a dissertation that represents a contribution to knowledge in the field.

Candidates must be in residence for a minimum of three years including the period spent on the Master of Arts program.

CURRICULUM OF DOCTORATE PROGRAM

<table>
<thead>
<tr>
<th>Courses</th>
<th>Credits / ECTS Credits</th>
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<tbody>
<tr>
<td>ECON 691 Ph.D. Pre-Thesis Seminar I</td>
<td>- / -</td>
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<tr>
<td>ECON 692 Ph.D. Pre-Thesis Seminar II</td>
<td>- / -</td>
</tr>
<tr>
<td>ECON 695 Research Methods in Economics I</td>
<td>3 / 6</td>
</tr>
<tr>
<td>ECON 696 Research Methods in Economics II</td>
<td>3 / 6</td>
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<tr>
<td>ECON 699 Ph.D. Dissertation</td>
<td>- / -</td>
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<tr>
<td>GE 690 Academic Practices</td>
<td>- / -</td>
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<tr>
<td>Electives (6)</td>
<td>18 / 36</td>
</tr>
</tbody>
</table>

During each semester of the second year at least three credit units of electives must be taken. The Ph.D. candidate may also take elective courses for credit in the third and fourth years of study. These electives may include courses from other departments or institutions as well as courses offered by the Department. There is no upper or lower limit on the number of such courses.

COURSE DESCRIPTIONS

UNDERGRADUATE COURSES

ECON 101 Introduction to Economics I
Introduces microeconomic concepts and analysis, supply and demand analysis, theories of the firm and of individual behavior, competition and monopoly, welfare economics. Application to problems of current economic policy. Credit units: 3 ECTS Credit Units: 6. Aut (T. Kara, A. Ö. Pehlivan) Spr (Ç. Ökten Hasker)

ECON 102 Introduction to Economics II
An overview of macroeconomic issues: the determination of output, employment, unemployment, interest rates, and inflation. Monetary and fiscal policies are discussed as well as international economic issues. Introduces basic models of macroeconomics and illustrates principles with the experience of Turkish and foreign economies. Credit units: 3 ECTS Credit Units: 6. Aut (F. Taşkıncı) Spr (R. S. Gürkaynak, F. Taşkıncı)

ECON 103 Principles of Economics
Introduces the basic concepts of micro and macro economics, supply and demand analysis, and economic theories. The implications of economics in regards to social issues and the role of economics in the field of communication and advertising are discussed. Credit units: 3 ECTS Credit Units: 6. Aut (H. B. Karabudak) Sp (Staff)

ECON 105 Principles of Microeconomics I
Introduction to basic microeconomic concepts. What is microeconomics all about? Economists’ approach to current microeconomics issues at the individual household and firm level. Government’s micro policies in providing incentive for production, consumption, and technology choice. Current debates on firm behavior, “new economy”, and issues of privatization and efficient use of resources. Market organizations, welfare and the firm objectives. Credit units: 3 ECTS Credit Units: 5. Aut (N. Özkaramete Coşkun)

ECON 106 Principles of Microeconomics II
An overview of macroeconomic issues. The concept of the gross national product and its determination. Theories of macroeconomic equilibrium and government policies to effect the gross national product, employment, investment, and foreign trade. Current issues on the “global economy”; international economic organization and Turkey’s role in a changing world macroeconomic environment. Credit units: 3 ECTS Credit Units: 5. Spr (Staff)

ECON 107 Principles of Macroeconomics
Introduction of core microeconomic concepts, focusing on application of these principles in current events. Main topics include demand and supply analysis, firm behavior and the studying of market structures and their welfare analysis. Credit units: 3 ECTS Credit Units: 6. Aut (T. Kulaksızoğlu, B. Onar, M. Polat) Spr (B. Onar, F. B. Pakel, M. T. Yiğit)
ECON 108 Principles of Macroeconomics
Introduction to core macroeconomic concepts, focusing on their application to current economic events. Main topics include determination of output, inflation, interest rates, employment and unemployment. Credit units: 3
ECTS Credit Units: 6. Aut (M. Polat) Spr (T. M. Kara, M. Polat)

ECON 199 Training in Economics I
The course aims at practical training in industrial, business or research settings, typically conducted during semester breaks under the guidance and approval of the student's academic advisor. Credit units: None ECTS Credit Units: None.

ECON 203 Microeconomic Theory I
This course is the first part of an intermediate level microeconomics sequence. Consumer theory, theory of the firm, and partial equilibrium theory are studied in depth. Applications of the partial equilibrium model to public finance and trade are also covered. Credit units: 3 ECTS Credit Units: 6. Prerequisite: (ECON 101 and MATH 106) or MATH 102 or MATH 114. Aut (N. A. Dalkıran, A. Ö. Pehlivan) Spr (N. A. Dalkıran, A. Ö. Pehlivan)

ECON 204 Microeconomic Theory II
This course is the second part of an intermediate level microeconomics sequence. Topics covered are: general equilibrium, welfare economics, monopoly, imperfect competition, externalities and public goods, uncertainty and information, and game theory. Credit units: 3 ECTS Credit Units: 6. Prerequisite: ECON 203. Aut (K. E. Hasker) Spr (K. E. Hasker, R. İlkilç, E. Karagözöglu)

ECON 205 Macroeconomic Theory I
This course is the first part of an intermediate level macroeconomics sequence. Besides the analysis of national income determination, inflation and unemployment, analysis of aggregate supply and growth theories will be introduced. Within the frameworks of basic business cycle models, demand side equilibrium, and the IS/LM models (including its open economy version) fiscal and monetary policy effectiveness will be studied. Credit units: 3 ECTS Credit Units: 6. Prerequisite: (ECON 102 and MATH 105) or MATH 102 or MATH 114. Aut (H. Berument, R. S. Gürkaynak) Spr (H. Berument, B. Neyaptı)

ECON 206 Macroeconomic Theory II
This course is the second part of the intermediate macroeconomics sequence and it focuses on microfoundations in order to study macro models. Among the subjects are the consumption and investment theories, inflation and unemployment trade-off, and fiscal and monetary policy design and institutions with regards to open economy macroeconomics, exchange rate models and current account dynamics that are grounded in the intertemporal optimization problem of the representative agent will also be introduced. Credit units: 3 ECTS Credit Units: 6. Prerequisite: ECON 205. Aut (B. Neyaptı) Spr (B. Neyaptı, H. Çağla)

ECON 207 Economics Theory for Engineers
This course is designed to introduce Engineering students to the fundamentals of economic analysis. It provides an introduction to micro and macroeconomic principles and concepts. The course also introduces the students to the core topics of intermediate level of microeconomic analysis: analysis of the consumer, the firm, and the market. Credit units: 3 ECTS Credit Units: 6. Prerequisite: MATH 102 or MATH 225. Aut (F. B. Pakel, K. Yıldız) Spr (F. B. Pakel, K. Yıldız)

ECON 221 Introduction to Probability and Statistics I

ECON 222 Introduction to Probability and Statistics II
Sampling and sampling distributions. Introduction to inference. Point and interval estimation. Hypothesis testing. Small sample distributions (t, X², F). Introduction to analysis of variance, regression and distribution free methods. Applications using statistical computer programs. Credit units: 3 ECTS Credit Units: 6. Prerequisite: ECON 221 or MATH 119 or MATH 264 or PSYC 202. Aut (İ. Apaydın) Spr (T. Kaya, S. F. Mahmud, C. Pakel)

ECON 225 Mathematics for Economists
Multivariate calculus, constraint optimization, Hessians, implicit function theorem, difference equations. Credit units: 3 ECTS Credit Units: 6. Prerequisite: MATH 102 or MATH 106. Aut (R. İlkilç, K. Yıldız) Spr (R. İlkilç, S. Koray)

ECON 301 Econometrics I
Introduction of linear multiple regression model, inference, hypothesis testing; and maximum-likelihood methods. Illustration from economics and application of these concepts to economic problems will be emphasized. The course covers Gauss-Markov assumptions and violation of the assumptions such as heteroskedasticity, serial correlation and errors variables. Credit units: 3 ECTS Credit Units: 6. Prerequisite: (ECON 101 and ECON 102
ECON 302 Econometrics II
Identification and estimation of simultaneous equation models. Advanced topics such as Generalized Least Squares, instrumental variables, non-linear regression techniques and limited dependent variable models. An introduction to time-series analysis such as stationary and nonstationary processes, VARs, unit roots, and cointegration. Credit units: 3 ECTS Credit Units: 6, Prerequisite: ECON 301. Spr (M. T. Yiğit)

ECON 321 Financial Institutions and Markets
Role and functioning of the capital and money markets as a device for the allocation of resources, the channeling of investable funds, and reallocation of risk. Function of financial intermediaries operating in these markets. International financial relations. Monetary history. Credit units: 3 ECTS Credit Units: 6, Prerequisite: ECON 202 or ECON 206.

ECON 322 Monetary Economics
Basic models of money and monetary economics; the role of expectations; asset pricing models with special reference to equities and the term structure of interest; the Phillips curve; banking and financial intermediaries, monetary and fiscal policies. Credit units: 3 ECTS Credit Units: 6, Prerequisite: ECON 202 or ECON 206. Spr (Staff)

ECON 323 Economics of Monetary Union
Contemporary issues of monetary integration; the European Monetary Union experience; Euro zone; monetary and fiscal policies for monetary union targets; the Maastricht Criteria; Central Bank Independence and Price Stability. Credit units: 3 ECTS Credit Units: 6, Prerequisite: ECON 202 or ECON 206. Aut (Ö. Altay)

ECON 331 International Economics I
Theory of international trade and applications in commercial policy. Credit units: 3 ECTS Credit Units: 6, Prerequisite: ECON 201 or ECON 204. Aut (S. Togan)

ECON 332 International Economics II
Adjustment in international economic relations with attention to foreign exchange markets, balance of payments, and the international monetary system. Credit units: 3 ECTS Credit Units: 6, Prerequisite: ECON 202 or ECON 206. Spr (S. Togan)

ECON 351 Fiscal Economics I
First and second best fiscal theory. Incidence models. Economic response to taxation. Quantitative analysis of economic effects of fiscal instruments and fiscal changes. Government finance statistics; tax and expenditure structures; the budget and government financing; fiscal management in Turkey and abroad. Credit units: 3 ECTS Credit Units: 6, Prerequisite: ECON 202 or ECON 204. Spr (S. F. Mahmud)

ECON 361 Methodology and Evolution of Social Theory
The course introduces concepts of the evolution of social theorizing in economics; alternative paradigms of economics; basic approaches to research methodology with emphasis on philosophy and epistemology; critical thinking on the economic rationale. Credit units: 3 ECTS Credit Units: 6, Prerequisite: ECON 204 and ECON 202.

ECON 363 History of Economic Thought
The main topic of this course is the developments in the theoretical aspects of economics, after the marginal utility revolution. The context starts from 1870's with the contributions of major economists to marginal utility theory and applications. It proceeds with general and partial equilibrium analyses. Finally, Keynesian income determination, Monetarism, New Classical economy and post-Keynesian approaches are examined. Credit units: 3 ECTS Credit Units: 6, Prerequisite: ECON 203 and ECON 205. Aut (T. M. Kara) Spr (T. M. Kara)

ECON 399 Summer Training
The course aims at giving third-year students a chance to have practical training in industrial, business or research settings, typically conducted during semester breaks under the guidance and approval of the student's academic advisor. Credit units: None ECTS Credit Units: None. Aut (Staff)

ECON 400 Analytical Writing for Economist
For students in the department of economics, writing analytical and effectively is important. Thinking, writing and presenting effectively are increasingly becoming the determinants of success in the professional world. The course aims at developing the analytical writing and presentation skills of the students and emphasizes the discussion, presentation and conveying of ideas in the field of economics. The coursework will consist of the writing exercises and presentations of discussions in economic topics and issues. Credit units: 3 ECTS Credit Units: 6, Prerequisite: ECON 204 and ECON 206. Spr (Staff)

ECON 401 Seminar in Microeconomic Policy
The course aims to develop the student's skills to undertake an independent research project in the area of microeconomics. The structure of the course is designed to improve student's presentation and writing skills.
The course outline includes a comprehensive reading list in microeconomic theory and policy issues. The students are required to gain familiarity with the topics through weekly in-class discussions, presentations and written reports. Furthermore, the students are required to demonstrate proficiency in a strand of literature chosen from the assigned reading list, formulate an academic hypothesis and complete a research report as part of the course requirements. Credit units: 3 ECTS Credit Units: 6.

ECON 402 Seminar in Macroeconomic Policy
The course aims to develop the student's skills to undertake an independent research project in the area of microeconomics. The structure of the course is designed to improve student's presentation and writing skills. The course outline includes a comprehensive reading list in microeconomic theory and policy issues. The students are required to gain familiarity with the topics through weekly in-class discussions, presentations and written reports. Furthermore, the students are required to demonstrate proficiency in a strand of literature chosen from the assigned reading list, formulate an academic hypothesis and complete a research report as part of the course requirements. Credit units: 3 ECTS Credit Units: 6. Spr (F. Taşkıran)

ECON 403 Issues in Public Finance
Introduces fundamentals of deficit financing. The role of the bureaucracy and its relations with the government is discussed with an emphasis on the role of the Treasury and its functioning. New orientalism in government financial management, government balance sheet approach, expenditure management and control issues are other topics that are covered in this course. Credit units: 3 ECTS Credit Units: 6, Prerequisite: ECON 202 or ECON 206. Aut (F. Emili)

ECON 404 Issues in Macro Economics
This course covers contemporary theories of macroeconomics with special emphasis on current issues such as stabilization, unemployment, central bank independence and monetary control, and inflation targeting. Credit units: 3 ECTS Credit Units: 6, Prerequisite: ECON 202 or ECON 206.

ECON 406 Issues in Macroeconomics
This course covers contemporary theories of macroeconomics with special emphasis on current issues such as stabilization, unemployment, central bank independence and monetary control, and inflation targeting. Credit units: 3 ECTS Credit Units: 6, Prerequisite: ECON 202 or ECON 206.

ECON 409 Contemporary Issues in Turkish Economy I
Contemporary problems confronting the Turkish economy, structural adjustment reforms and macroeconomic policies. Credit units: 3 ECTS Credit Units: 6, Prerequisite: ECON 202 or ECON 205. Aut (H. Berument, S. Sayek Böke)

ECON 410 Contemporary Issues in Turkish Economy II
Turkish Economy in the 1990's, financial liberalization, Turkey and the European Union. Credit units: 3 ECTS Credit Units: 6, Prerequisite: ECON 202 or ECON 205.

ECON 415 Mathematics for Economists I
This course will introduce the students to advanced mathematical techniques via discrete mathematics. The main topics covered are: proof techniques, recursive relations, difference equations, backward induction, dynamic programming and their applications. Credit units: 3 ECTS Credit Units: 6, Prerequisite: ECON 225 or MATH 102 or MATH 114.

ECON 428 Public Sector Governance
This course is about theoretical and practical aspects of quality and performance management in provision of services within the public sector. In this regard, the course will attempt to inform the students about the pros and cons of new public management culture. The dynamics which changed the "public administration culture" to "public sector management" will be explored. Strategic and performance management and what they mean to public sector, public sector management reforms including financial management, personal management, quality management, audit issues and citizen participation in decision making process will be elaborated. No prerequisites are necessary. Credit units: 3 ECTS Credit Units: 6, Spr (F. Emili)

ECON 430 Economics of Regulation and Antitrust
The course deals with questions such as what particular market failures provide a rationale for government intervention? How can economic theory illuminate the character of market operation, the role for government action, and the appropriate form of government action. What do formal empirical analyses of economic behavior and the effects of government intervention indicate about the direction that this intervention should take? Where does the antitrust policy stand within this framework? To provide the most up to date answers to these questions, the course utilizes economic theory and empirical analysis that have been devised to further understanding of regulations and antitrust policies. Credit units: 3 ECTS Credit Units: 6, Prerequisite: ECON 201 or ECON 204 or ECON 207.

ECON 432 Turkish and World Economy in the 20th Century
Growth and developments in Turkey and the World from World War I to present. The application of economic analysis to historical issues. Topics: Great Depression, the interwar period, the developments in Soviet type economies since 1917, the Bretton Woods System, the collapse of the Bretton Woods System, the collapse of communism, Turkish economy during the Great Depression and thereafter. Credit units: 3 ECTS Credit Units: 6, Prerequisite: ECON 202 or ECON 206. Aut (F. Emili) Spr (F. Emili)
ECON 433 Industrial Economics I
This course will survey the current thinking and issues in industrial organization and regulation. The objectives of the course are both to examine in some depth how firms behave in a market economy, and to review some basic forms of state intervention in modern capitalist economics. The course will provide some background on firm behavior and, the legal environment in which they operate, and will review the rational and experience of antitrust and competition policies. The second semester will concentrate on the regulation of private monopolies. Credit units: 3 ECTS Credit Units: 6, Prerequisite: ECON 201 or ECON 204 or ECON 207. Aut (Ç. Ökten Hasker)

ECON 439 Game Theory I
This course is an introduction to the theory of games. Games theory provides a set of analytical tools that can be used to model the interactions of decision-makers (consumers, firms, politicians, government, etc). The course introduces the basic theory of noncooperative game theory. A variety of applications will be discussed. Credit units: 3 ECTS Credit Units: 6, Prerequisite: ECON 204 or ECON 207 or MATH 223 or MATH 225 or MATH 242. Aut (K. E. Hasker) Spr (K. E. Hasker)

ECON 442 Application of Graph Theory to Economics
Credit units: 3 ECTS Credit Units: 6. Spr (S. Koray)

ECON 443 Advanced Economic Theory
Special topics in micro and macroeconomics. Topics include inflation and unemployment, theories of macroeconomic policies, economic stabilization, theories of the consumer and the firm welfare and general equilibrium analysis. Credit units: 3 ECTS Credit Units: 6, Prerequisite: (ECON 201 and ECON 202) or (ECON 204 and ECON 206). Aut (R. S. Gürkaynak, H. Ç. Sağlam)

ECON 444 Bargaining Theory and Experiments in Economics
Our objective is to introduce students (with potentially different majors) the key concepts in bargaining, major approaches used in modeling/studying bargaining (e.g., cooperative and noncooperative game theory, experimental economics, behavioral economics, social psychology), interactions between these approaches, special topics in bargaining, and current trends/future directions in bargaining research. We hope that, by the end of the course, students will have a decent and up-to-date knowledge about the research on bargaining; and some students may even come up with good research questions. Due to the interdisciplinary nature of the topic, the course will adopt multiple methodologies. First, the (game) theoretical foundations will be presented. Experimental and behavioral methods will follow to complement students’ understanding. Occasionally, research on bargaining behavior in social psychology and management will also be covered. Since practicing bargaining contributes to a better understanding of the topic, we will occasionally conduct in-class and field experiments. Credit units: 3 ECTS Credit Units: 6, Prerequisite: ECON 204 or ECON 207.

ECON 446 Networks in Economics: Theory and Applications
The course deals with how network structures shape economic outcomes and influence the behavior of economic agents. The course will introduce the students to analytical models and applications of strategic network formation, job market networking, exchange and bargaining on networks, diffusion on networks, diffusion on networks and games on networks. Credit units: 3 ECTS Credit Units: 6, Prerequisite: ECON 204 or ECON 207 or MATH 223 or MATH 225 or (MATH 241 and MATH 242). Aut (R. İlkin)

ECON 448 Economics of Information
The aim of this course is to analyze asymmetric information in markets and organizations. Selective topics from mechanism design, contract theory, principal-agent problems, global games and information aggregation will be covered. Credit units: 3 ECTS Credit Units: 6, Prerequisite: ECON 204 and ECON 225. Spr (N. A. Dalkıran)

ECON 453 Theories of Economic Growth and Development I
Introduction to modern theories of growth; the neoclassical growth model; the golden rule of accumulation; transitional dynamics and the steady state; exogenous versus endogenous growth modeling; sources of growth and the convergence of nations; empirics of growth. Introduction to endogenous growth. Credit units: 3 ECTS Credit Units: 6, Prerequisite: (ECON 201 and ECON 202) or (ECON 204 and ECON 206). Spr (H. Ç. Sağlam)

ECON 455 Institutions and Development
A synopsis of earlier development theories. Analysis of the linkages between economic development and macroeconomic institutions in the framework of “New Institutional Economics”. Empirical analysis of institutional designs that are related to fiscal and monetary policy making are introduced. Specifically, economic effects of fiscal decentralization; budgetary rules and procedures; central bank independence and inflation targeting are examined. Credit units: 3 ECTS Credit Units: 6, Prerequisite: (ECON 202 or ECON 206) and ECON 222. Aut (B. Neyaptı)

ECON 459 Health Economics
This course is designed to introduce upper level undergraduate students in economics to the field of Health Economics. The provision and production of health care have different characteristics and incentives from other consumer goods making health related markets a unique topic for study. This course will cover a number of topics including basic economic concepts important for the study in health economics, why health is different...
from other good, aspects of the health care market in Turkey, health care in other countries, as well as discussing the importance of health for development and some basic economic evaluation techniques. Credit units: 3 ECTS Credit Units: 6. Prerequisite: ECON 204. Aut (V. Çelinkaya)

GRADUATE COURSES

ECON 500 Mathematics Review Course
The course is designed to maintain and develop familiarity with the mathematical tools used in the Masters and PhD Program in the department of Economics. This course is designed to help students master an important set of mathematical skills necessary to study economics. It will cover basic concepts from calculus, linear algebra, optimization, and mathematical analysis, which will be used in the first year courses. Credit units: 3 ECTS Credit Units: 6. Aut (N. A. Dalkiran)

ECON 503 Microeconomic Theory I

ECON 504 Microeconomic Theory II
Theory of general competitive equilibrium. Topics include existence of equilibrium, computational techniques, core of the economy, stability, uniqueness of equilibrium, and empirical general equilibrium models. Credit units: 4 ECTS Credit Units: 7. Spr (K. Yıldız)

ECON 505 Macroeconomic Theory I
A wide-ranging survey of modern macroeconomic theory with an emphasis on the necessary mathematical tools and the dynamic methods. Focuses on competitive equilibrium, optimality, dynamics of equilibria, economic fluctuations, long-run growth, technological progress, life-cycle aspects and economic policies. Credit units: 4 ECTS Credit Units: 7. Aut (H. Ç. Sağlam)

ECON 506 Macroeconomic Theory II
Stochastic models of economic fluctuations. Rational expectations. The effectiveness of monetary and fiscal instruments. Uses of general equilibrium econometric models for forecasting and policy simulations. Multi-country models and the international transmission mechanism. Credit units: 4 ECTS Credit Units: 7. Spr (R. S. Gürkaynak)

ECON 507 Economics for International and Public Affairs I
This course introduces basic concepts of microeconomic analysis relevant for international economics and public affairs. Theories of rational consumer behavior, the profit seeking firm, and market structures are introduced in a policy setting. Issues of corporate governance, pricing strategies and social welfare are analyzed within the realm of efficiency and optimality, in a rapidly changing and globalizing world. Credit units: 3 ECTS Credit Units: 6. Aut (M. Polat)

ECON 508 Economics for International and Public Affairs II
Basic concepts and theories of macroeconomic analysis are introduced. The determination of national income, employment, inflation, interest rate and the exchange rate. Monetary and fiscal policy instruments are introduced with special emphasis on their effects on international economic relations. The course further introduces modern paradigms of open economy macroeconomics, and illustrates current economic problems with the experiences of Turkish and foreign economies. Credit units: 3 ECTS Credit Units: 6. Spr (M. Polat)

ECON 509 Probability and Statistics I

ECON 510 Probability and Statistics II
Ordinary Least Squares: basic assumption, estimation and tests of hypotheses, the coefficient of determination, prediction, functional forms, the problem of choosing between them and specification tests, multicollinearity. Dummy Variables, testing structural change, estimating the prediction error variance and pooling cross-sectional and time-series data. Lagged dependent variables, binary dependent variables. Autocorrelation and heteroscedasticity. Simultaneous equations; identification and single-equation estimation techniques. Credit units: 4 ECTS Credit Units: 6. Spr (M. Trokic)

ECON 511 Econometrics I
Theory and applications of time series models. Topics include ARMA and VARMA models, Trend-Cycle decomposition, Unit roots, Cointegration, Structural change, ARCH, Regime switching and threshold models, Statespace form and Kalman filters, and specialized topics such as Fractional Integration and I(2) models. Credit units: 3 ECTS Credit Units: 6. Prerequisite: ECON 510. Aut (M. T. Yiğit)
ECON 512 Econometrics II
Theory and application of existing micro-econometric techniques, econometrics of panel data, and Monte Carlo simulation. Topics include Discrete regression models, Censored and Truncated regression, Models with self-selectivity, Disequilibrium models, Count Data. Duration models, Static panel data analysis, Dynamic panel data analysis, Non-stationary panel methods: Panel unit roots and cointegration, PanelVAR, Monte Carlo and bootstrap. Credit units: 3 ECTS Credit Units: 6, Prerequisite: ECON 510. Spr (A. Ö. Pehlivan)

ECON 513 Game Theory I
Game theoretic approaches to economics, strategic decision-making, discussion of contemporary issues in economic design. Credit units: 3 ECTS Credit Units: 6.

ECON 514 Game Theory II
Continuation of ECON 513. Credit units: 3 ECTS Credit Units: 6, Prerequisite: ECON 504.

ECON 515 Mathematics for Economists I

ECON 516 Mathematics for Economists II
The contraction mapping theorem. Theorem of the maximum. Dynamic programming under certainty. Measure theory and integration. Stochastic dynamic programming. Modes of convergence and laws of large numbers. Credit units: 3 ECTS Credit Units: 6, Prerequisite: ECON 515. Spr (S. Koray)

ECON 517 Mathematical Economics I
Mathematical theory of general economic equilibrium. Credit units: 3 ECTS Credit Units: 6, Prerequisite: ECON 516.

ECON 521 International Economics I
Theory of international trade and applications in commercial policy. Credit units: 3 ECTS Credit Units: 6, Prerequisite: ECON 504.

ECON 522 International Economics II
Adjustment in international economic relations with attention to foreign exchange markets, balance of payments, and the international monetary system. Credit units: 3 ECTS Credit Units: 6, Prerequisite: ECON 506 and ECON 521.

ECON 523 Firms in International Trade
Credit units: 3 ECTS Credit Units: 6, Prerequisite: ECON 504.

ECON 551 Studies in Growth and General Equilibrium Modeling I
The course focuses on the general equilibrium properties of economies in dynamic movement. Theories of new growth and computation of transitional versus steady state dynamics are discussed and modeled using dynamic programming techniques. The Walrasian general equilibrium system is extended to study Grossman-Helpman-Romer type of endogenous growth based on R and D formation, and the economics of human capital -intensive, knowledge- driven endogenous growth. Dynamic Applied General Equilibrium is modeled to address contemporary issues on growth, accumulation and savings. Credit units: 3 ECTS Credit Units: 6.

ECON 562 Topics in Microeconomic Theory II
The subject matter of this course will vary from year to year, according to the interest of the instructor. Credit units: 3 ECTS Credit Units: 6, Prerequisite: ECON 561.

ECON 563 Topics in Macroeconomic Theory I
The subject matter of this course will vary from year to year, according to the interests of the instructor. Credit units: 3 ECTS Credit Units: 6. Aut (R. S. Gürkaynak, H. Ç. Sağlam)

ECON 564 Topics in Macroeconomic Theory II
Continuation of ECON 563. Credit units: 3 ECTS Credit Units: 6, Prerequisite: ECON 563. Spr (Staff)

ECON 591 Masters Pre-Thesis Seminar I
This is a course where students will attend a series of lectures presented by faculty members and/or invited academics and submit written reports on the papers presented. Credit units: None ECTS Credit Units: None. Aut (Staff)

ECON 592 Masters Pre-Thesis Seminar II
This is a course where students will attend a series of lectures presented by faculty members and/or invited academics and submit written reports on the papers presented. Credit units: None ECTS Credit Units: None. Spr (Staff)

ECON 595 Research Paper I
Credit units: None ECTS Credit Units: None. Aut (E. Karagözoğlu)
ECON 596  Research Paper II
Students read, discuss and present research papers in particular areas. An in-depth study of an appropriate question and completion of a paper of high quality. Credit units: None ECTS Credit Units: None. Spr (Staff)

ECON 599  Master's Thesis
Credit units: None ECTS Credit Units: None. Aut (Staff) Spr (Staff)

ECON 691  Ph.D. Pre-Thesis Seminar I
This is a course where students will attend a series of lectures presented by faculty members and/or invited academics and submit written reports on the papers presented. The students working on their dissertation are expected to present the outcome of their research and submit a research paper of publishable quality. Credit units: None ECTS Credit Units: None. Aut (Staff)

ECON 692  Ph.D. Pre-Thesis Seminar II
This is a course where students will attend a series of lectures presented by faculty members and/or invited academics and submit written reports on the papers presented. The students working on their dissertation are expected to present the outcome of their research and submit a research paper of publishable quality. Credit units: None ECTS Credit Units: None. Spr (Staff)

ECON 695  Research Methods in Economics I
This is a course where students will complete a research project with the full-time guidance and tutoring of a group of faculty members. The students will learn alternative research methods used in economics and apply them to a research question, with the goal of completing an academic paper at the end of the course sequence. Credit units: 3 ECTS Credit Units: 6. Aut (E. Karagözoglu)

ECON 696  Research Methods in Economics II
This is a course where students will complete a research project with the full-time guidance and tutoring of a group of faculty members. The students will learn alternative research methods used in economics and apply them to a research question, with the goal of completing an academic paper at the end of the course sequence. Credit units: 3 ECTS Credit Units: 6. Spr (Staff)

ECON 699  Ph.D. Dissertation
Credit units: None ECTS Credit Units: None. Aut (Staff) Spr (Staff)
DEPARTMENT OF HISTORY


The Department of History functions mainly as a graduate department, offering M.A. and Ph.D. programs in the areas of Ottoman, American, and European histories. At the undergraduate level, the department offers both compulsory and elective courses in History of Civilization (HCIV 101/102) for the students of other departments and faculties, and provides preparatory courses for the entering graduate students entering the Department of History, some of which are also offered as electives for senior undergraduates of other departments.

MINOR PROGRAM

History is the academic study of past societies by means of written sources. An understanding of history is important for all students. Familiarity with the past of one’s own country, as well as that of other countries, is obviously essential for both one’s own identity but also for a full appreciation of the increasingly global atmosphere of the twenty-first century. Without a sense of history, we are nothing!

The new minor program in history is intended to teach the main skills of historical research while providing a strong background in the three main areas taught by the History Department: students will undertake a study of Ottoman history from the classical period to the early twentieth century, as well as research about medieval and modern Europe and the history of the USA. Emphasis is placed on independent thinking and critical analysis of sources and ideas rather than mere memorization of names and dates.

The minor courses in history form part of the History Department's preparatory year for its master's students. These courses are specifically designed for students with no previous experience of studying history and are already popular as electives among students from undergraduate departments. The minor program is open therefore to applicants with a sufficient CGPA from any department. Students who are considering a graduate degree in history are encouraged to apply, and those in social sciences and humanities who wish to support their major field with a broader historical knowledge will also find the history minor useful. However, the minor program requires no prior, specialist experience of studying history or related disciplines, and it will therefore be of interest to those students who simply wish to improve their knowledge of history, as well as those who have a more long-term interest in history as an academic field.

Prerequisite Courses: None

CURRICULUM

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<td>HIST 418</td>
<td>Modern Europe (1453-1914)</td>
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<td>Electives (3)</td>
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GRADUATE PROGRAMS

The Department of History offers graduate programs in Ottoman, European and American history, leading to Master's and Ph.D. degrees. Emphasis is placed on preparing students to be able to undertake independent research in these particular fields. The graduate program involves a preparatory year designed to give students the background knowledge, skills and language proficiency which will
enable them ultimately to make original research with primary source materials. Since profound historical research can only be carried out through the use of primary source materials, it is necessary for students to acquire the relevant linguistic and paleographic skills.

**Master of Arts in History**

The program is designed to concentrate on the areas of Ottoman History, European History and the History of the United States.

The preparatory year prior to the Master's program provides a background in Western and Turkish history. The first year in the Master's program features specialized courses in Ottoman History, European History, and the History of the United States. Students should by then have acquired a solid knowledge in history so as to be able to raise questions concerning more specific historical themes. During the second year the student begins to write his/her Master's thesis under the supervision of an advisor. During the Master's program the student is expected to submit papers at the end of each semester.

**Admission:** Graduates from all departments may apply to this program. An undergraduate degree in History is not a prerequisite for entering the M.A. program. All students entering the graduate program in history must take one year of preparatory courses before they begin to take Master's level courses of the department. Therefore, graduates from the Faculties of Management, Engineering or Science, as well as those from the Humanities and Social Sciences Faculties who are interested in history are also eligible to apply for admission. Students admitted should have passed the English Language Test (level equivalent to internet based TOEFL 82). (Also refer to the “Graduate Admissions” section in the introduction of this catalog for the general graduate admission requirements.)

**Degree Requirements:**

1. Completion of at least 24 graduate-level credits after a preparatory year.

2. Within the program there are three tracks: Ottoman History, European History, and American History. Elective and Restricted Elective courses appropriate to each track will be designated within the curriculum below.

3. Students of Ottoman History must demonstrate competence in Ottoman Turkish and one modern language other than English or Turkish.

4. Students of European History and the History of the United States must demonstrate competence in one modern language other than English or Turkish.

5. A Master's thesis must be submitted and accepted.

6. A grade point average of at least 3.00 must be maintained for the totality of Master's level work.

**CURRICULUM FOR THE MASTER OF ARTS PROGRAM**

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<td>Elective</td>
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<td>**</td>
<td>Restricted Electives (5)</td>
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* Any 5XX or higher level course at least 3 credits.

** Any 5XX or higher level HIST course at least 3 credits.
Doctor of Philosophy in History

To enter the Ph.D. program a candidate is required to have completed an M.A. program in History, and passed the entrance exam for his/her specific major area of the doctoral program. Applicants with M.A. degrees from other programs at Bilkent or other universities are also subject to the same requirements for admission into the doctoral program. (Also refer to the “Graduate Admissions” section in the introduction of this catalog for the general graduate admission requirements.)

Among the degree requirements is a minimum of 24 credit units of graduate level course work beyond the course work completed at the Master’s level, to be determined by the advisor and the departmental chair for each doctoral candidate. To meet the course requirements, the candidates may take the graduate level history courses that they have not previously taken and, if necessary, graduate level courses from other departments. For those who have taken graduate courses elsewhere, the department may apply for permission from the director of the graduate school (the Institute) to grant partial or full-credit for such courses. The candidate may also take language courses as recommended by his/her advisor. The candidate is expected to have participated in seminars offered on source materials. Within the program there are three tracks: Ottoman History, European History, and American History. Courses appropriate to each track will be designated within the curriculum below.

Candidates in Ottoman history are required to undergo language examinations in one of the Western languages (French, German, Latin, Ancient Greek, Italian) and in one of the Middle Eastern languages (Arabic, Persian) in reading proficiency prior to the comprehensive exams.

After the completion of a minimum of 24 credits of course work, the candidate is eligible to take the written and oral comprehensive exams. The first part of these examinations evaluates the candidate’s expertise in the relevant field/period. The second part is tailored to each particular students’ research proposal for the dissertation. The candidate must prepare a doctoral dissertation embodying original research and must successfully defend it in a final exam before a committee of the faculty before the end of the fourth year of the doctoral program unless an extension is granted. The dissertation has to represent a substantial contribution to the historical knowledge in one of the particular fields of study.

CURRICULUM FOR THE DOCTOR OF PHILOSOPHY PROGRAM

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<td>* Elective</td>
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<td>** Restricted Electives (7)</td>
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* Any 5XX or higher level course at least 3 credits.
** Any 5XX or higher level HIST course at least 3 credits.

COURSE DESCRIPTIONS

HIST 200 History of Turkey
This course focuses on aspects of Turkey’s history with an emphasis on research. It is designed as an interactive course with the objective to investigate events, chronologically short historical periods, as well as historic representations. Credit units: 4 ECTS Credit Units: None. Aut (S. Erkoç, A. Özer, I. M. Öztürk, Ö. Sert, M. Ünal, M. S. Ünsal, H. Yeni, A. Yiğit) Spr (Staff)

HIST 203 History of Turkey
This course is designed to have students who already took a 2 credit history course to fulfill the overall 4 required credits for the subject. It focuses on aspects of Turkey’s history with an emphasis on research. It is an interactive course with the objective to investigate events, chronologically short historical periods, as well as historic representations. Credit units: 2 ECTS Credit Units: None. Aut (I. M. Öztürk, M. S. Ünsal) Spr (Staff)
HIST 209  
History of Turkey  
The course focuses on aspects of Turkey's History with an emphasis on research. It is designed as an interactive course with the objective to investigate events, chronologically short historical periods, as well as historic representations. Credit units: 4 ECTS  

HIST 313  
Classical Arabic I  
Basic grammar of Classical Arabic. The main tenses. Credit units: 3 ECTS  

HIST 314  
Classical Arabic II  
Basic grammar of Classical Arabic. Irregular grammatical forms. Reading of simple religious and legal texts. Credit units: 3 ECTS  

HIST 315  
Advanced Classical Arabic I  
Reading and grammatical interpretation of Classical Arabic texts. Credit units: 3 ECTS  

HIST 316  
Advanced Classical Arabic II  
Reading and grammatical interpretation of Classical Arabic texts. Credit units: 3 ECTS  

HIST 317  
Ottoman Turkish and Paleography I  
Course on Arabic script and Ottoman grammar. Credit units: 4 ECTS  

HIST 318  
Ottoman Turkish and Paleography II  
Course on Arabic script and Ottoman grammar. Reading exercises on printed Ottoman texts. Credit units: 4 ECTS  

HIST 401  
Ottoman History: 1300-1600  
Classical period of the Ottoman Empire. Economic, political and religious institutions. Ottoman economic system. Relations with its European neighbors. Credit units: 3 ECTS  

HIST 411  
Ottoman History: 1600-1914  
Ottoman Empire in decline. Political, economic and ideological developments at the capital as well as in the provinces. Nationalism among non-Muslims and Muslims. Administrative and political reforms during the eighteenth and nineteenth centuries. Credit units: 3 ECTS  

HIST 412  
Byzantine History I: 324-1025  
Foundation of the Eastern Roman Empire, development of Byzantine institutions, relations of the Byzantine Empire with the East and West. Cultural and religious developments. Credit units: 3 ECTS  

HIST 413  
Byzantine History II: 1025-1453  

HIST 414  
Medieval British History  
Formation of the medieval English state from its Anglo-Saxon beginnings to the 14th century, tracing the developments in central and local government, its politics, social structure and its interaction with the rest of the British Isles and the Continent. Credit units: 3 ECTS  

HIST 415  
Medieval Europe (500-1500)  
This course traces the history of western Europe from the fall of the Roman Empire to the Renaissance, and deals with the main political, social and religious changes during that period. Credit units: 3 ECTS  

HIST 416  
Modern Europe (1453-1914)  
The course seeks to deal, selectively with the historiography of major themes in the political, social intellectual and religious history of Europe from the Renaissance to the eve of the emergence of the national state system characteristic of the twentieth century. Credit units: 3 ECTS  

HIST 417  
History of the United States until the Reconstruction  
Basic history of the United States from the colonial period up to the Civil War, designed to orient students to more detailed information. Characteristic problems of early American political, economic and intellectual history during the nation-building process. Credit units: 3 ECTS  

HIST 418  
History of the United States from the Reconstruction  
Basic history of the United States from 1865 up to the modern times, designed to orient students to more detailed information. Characteristic problems of American political, economic and intellectual history in the process of its emergence as a world power. Credit units: 3 ECTS
HIST 481 Latin for Medieval and Early Modern History I
Introduction of Medieval Latin to those graduate students who wish to specialize in Medieval as well as Early European History. Emphasis on both grammar and reading. Credit units: 3 ECTS Credit Units: 6. Aut (P Latimer)

HIST 490 Field Related Seminar
This is non credit-course, directed by the student’s academic advisor, which will run in each of the semesters of the History Department Preparatory Year, designed to ensure that the students is doing or has done the necessary relevant courses for his or her field and that the students is otherwise prepared for his or her Master of Arts Program or Doctor of Philosophy Program. Credit units: None ECTS Credit Units: None. Aut (Staff) Spr (Staff)

GRADUATE COURSES

HIST 501 Ottoman Paleography I
Advanced reading exercises on Ottoman documents. Credit units: 4 ECTS Credit Units: 8, Prerequisite: HIST 401. Aut (Ö. Ergenc)

HIST 502 Ottoman Paleography II
Advanced reading exercises on Ottoman documents. Credit units: 4 ECTS Credit Units: 8, Prerequisite: HIST 402. Spr (Ö. Ergenc)

HIST 505 Ottoman Rule in Southeast Europe I: 1354-1600

HIST 506 Ottoman Rule in Southeast Europe II: 1600-1878
Islamic culture and heterodox Islamic movements in Southeast Europe. Decline of the Ottoman Empire. Military and fiscal transformation and its impact on Ottoman Balkans. The Siege of Vienna in 1683 and the political and social effects of the Ottoman defeats. The rise of non-Muslim middle class and education. The struggle for independence of Balkan people and the “Eastern Question”. Credit units: 3 ECTS Credit Units: 6. Spr (E. R. Radushev)

HIST 507 Methodology in History I
Basic methods in historical research. The history of historiography. Main traditions and currents of historical thought. Credit units: 3 ECTS Credit Units: 6. Aut (Ö. Özel)

HIST 508 Methodology in History II
Main methods and approaches in historical research. Problems of historical research using primary sources. Source typology, and text criticism and analysis. Credit units: 3 ECTS Credit Units: 6. Spr (P. Latimer)

HIST 511 Ottoman Social and Economic History I
Ottoman Beylik as a frontier state. Hegemony in Anatolia and the Balkans. The Battle of Ankara and struggle for Revival. The conquest of Constantinople. The definitive foundation of the classical Ottoman Empire. Ottoman Empire as a world power. Internal disorders. Social, economic and religious institutions. Credit units: 3 ECTS Credit Units: 6. Aut (Ö. Ergenc)

HIST 512 Ottoman Social and Economic History II
The periods of transition and modernization of the Ottoman state and society. The detonation of the Ottoman classical socio-economic structure. The weakening of central authority. The ayans. Early attempts of modernization. Influence of the “Enlightenment” ideas on emergence of nationalist currents among non-Muslim communities. Tanzimat. Credit units: 3 ECTS Credit Units: None. Spr (Ö. Ergenc)

HIST 518 Introduction to Ottoman Diplomatics
History and development of the field of archival research. Archives and archival sources in Turkey. Development of the field of Ottoman diplomatics. Types and classification of Ottoman documents. Internal structure of Ottoman official correspondence, decrees and diplomas prior to the Tanzimat period. Ottoman official documentation in the period of reform until the dissolution of the Ottoman Empire. Credit units: 3 ECTS Credit Units: 6. Aut (Ö. Ergenc)

HIST 520 Sources of Ottoman Social and Economic History II
The Ottoman land regime. Social and legal changes throughout the Ottoman period. Reading and analysis of sources such as berats, mühümnes, sİcilİs, tahniİrs, temettüats and vakfiİyyes. Credit units: 3 ECTS Credit Units: 6.

HIST 524 US in the Vietnam Era
This course is designed to give students in the Master’s program in American history an in-depth look at the history of Vietnam War. The course will focus on the period roughly 1945-1975. In addition to the war itself, other
topics for discussion will include the Cold War, the Civil Rights movement, the counter culture and the legacy of the war in the 1990s. Credit units: 3 ECTS Credit Units: 6.

HIST 526 Advanced Ottoman Diplomatics
Historical development and characteristics of ottoman diplomatics, focusing particularly on the bureaucratic-institutional mechanisms that produced diverse genres in the ottoman central bureaucracy. Particular emphasis will be made on changing priorities of the central government over periods of time from the 'classical' period to the Tanzimat. Credit units: 3 ECTS Credit Units: None. Spr (Ö. Ergenc)

HIST 527 Feudalism: East and West I
Examination of the origins and development of the diverse modern concepts of ‘Feudal’ and ‘Feudalism’ from late medieval and early modern legal theory, through the Enlightenment and Marxism down to modern times. It will go on to deal with the elements of these concepts as historical phenomena in medieval and early modern Europe, and in the Byzantine and Ottoman Empires. Credit units: 3 ECTS Credit Units: 6.

HIST 529 Bulgaria Under the Ottoman Rule: History and Sources
Medieval Bulgarian state before the Ottomans. Ottoman conquest - from “Bulgarian Empire” to Ottoman Rumelia. Turkish colonization in Bulgaria: ahis, gazis, dervishes, and yürükts in the early colonization process. Demographic structure of Bulgarian lands under Ottoman rule. Ottoman towns and Turkish settlements in the rural area. Administrative division of Rumelia. communication system and trade routes. Conversion to Islam in urban and rural areas. Islamization process in Bulgarian lands as a contemporary myth. Ottoman culture in Bulgaria. Sources for the study of the Ottoman rule in Bulgarian lands. Credit units: 3 ECTS Credit Units: 6. Spr (E. R. Radushev)

HIST 535 Abdulhamid: Reformer or Reactionary
The development of Ottoman government and society during the reign of Sultan Abdulhamid II (1876-1909), with special attention to the role he played in completing the work of the Tanzimat reform movement carried out earlier in the 19th century, while at the same time suppressing many of the political and social ramifications of reform. Credit units: 3 ECTS Credit Units: 6.

HIST 537 US Civil War and the Reconstruction
An intensive examination of the United States from 1848 to 1877. Investigation of the causes of the Civil War; the military, social, and political history of the war; and the conflict over emancipation and Southern political power during the Reconstruction. Credit units: 3 ECTS Credit Units: 6. Spr (E. P. Kohn)

HIST 538 US in the Gilded Age and Progressive Era

HIST 545 Themes in Historical Geography and Demography
Examination of the bases of historical demographic research and the importance of geographical and topological information in the understanding of communities in Europe and the Ottoman Empire. Credit units: 3 ECTS Credit Units: 6.

HIST 558 US Politics and Culture Since 1945
From the red scare to Vietnam, and from the Reagen revolution to the Clinton implacament. American Politics have been about more than just elections. Religion, culture, value and ideas combine to both reflect and shape the politics of the day. This class will look at American politics and culture since 1945 to the present, stressing the unique American influence that continue to shape politics today. Credit units: 3 ECTS Credit Units: None. Aut (E. P. Kohn)

HIST 560 Major Issues in Medieval and Early Modern Economies
Study of the main transformations in the economies of Europe and the Near East from late Roman times to the mid-seventeenth century. Examination of the disappearance of monetary economy, emergence of manorialism, and trade life in the Mediterranean basin. Development of markets and the domination of Atlantic economy. Credit units: 3 ECTS Credit Units: None. Aut (P. Latimer)

HIST 564 Islamic Culture in the Ottoman Balkans, 1600-1900

HIST 567 History and Literature in the Ottoman Empire
Chronicles in the from of literary works. Analysis and interpretation of historically significant literary works of Ahmedi, chronicles of Aşıkpaşaçade and Oruç, MustafaAli’s Menlâkib ıll-Hünerverân, Mecâlisün-Nefâis and Tezkires. Credit units: 3 ECTS Credit Units: 6. Aut (M. Kalpakli)
HIST 569  Cultural History of the Ottoman Empire I
Analysis of the cultural history of the Ottoman Empire from 1453 to the period of Turkish Republic. Topics include social and cultural structures of the Ottoman Empire, language, literature and artistic tradition, and analysis and interpretation of some significant works (divan’s, biographies of poets, kaside, memoir’s). Credit units: 3 ECTS Credit Units: None.

HIST 571  Religion and Nationalism in 19th Century Europe
The formation and development of nationalist movements in the late 18th and 19th centuries. Their relationship to religion, and competing and complementary ideologies. Study of concrete examples in existing states and in stateless ethnic groups, throughout Europe but with particular reference to the British Isles. Credit units: 3 ECTS Credit Units: 6.

HIST 573  New Era/New Deal (1920-1945)
This course is designed to give students in the masters program in US history an in-depth look at the history of and historical literature about the period 1920-1945. Major topics will include the Jazz Age, the Roaring’s, the Great Depression, Franklin Roosevelt’s New Deal and World War II. Credit units: 3 ECTS Credit Units: None.

HIST 574  Enlightenment and Counter-Enlightenment
The nature of the Enlightenment and Counter-Enlightenment in mainland Europe and the British Isles, the social and political environment, their institutions, dissemination and influences. Credit units: 3 ECTS Credit Units: 6.

HIST 577  US Military and Diplomatic History
An intensive examination of American military and diplomatic history from the colonial period to the present with a focus on historiography. Topics may include colonial wars in North America, the wars of the United States, war and American society, treaties with European nations and with Native Americans, imperialism and anti-imperialism, rationalism, and the cold war. Credit units: 3 ECTS Credit Units: 6.

HIST 578  Magna Carta and Associated Documents: Texts and Contexts
Magna Carta - ‘The Great Charter’ - first issued in 1215, was at the heart of discussions of the relationship between government and people in the English-speaking world from the thirteenth century to at least the eighteenth century. It is a document fundamental for the study of constitution and law in England, Britain and the British colonies in America. Using English translations, this course will look at Magna Carta itself and associated documents. It will examine the background to the drafting of Magna Carta and its place in the political situation of the time, but will then go on to look at the continuing significance of the document, and of the principles behind it, for the remainder of the Middle Ages and beyond. Credit units: 3 ECTS Credit Units: None.

HIST 579  Modernization of the Ottoman Empire:1800-1923
Study of the processes by which the Ottoman Empire modernized itself during the 19th and early 20th centuries. Special attention to the Tanzimat, the reign of Sultan Abdülhamid II, and the Young Turk Constitutional era. Credit units: 3 ECTS Credit Units: None.

HIST 581  History of Arab Nationalism in the Middle East
This course explores the birth, triumph and fall of Arab nationalism in the Middle East. The course focuses on historical events, political leaders and movements all of which defined and shaped the nature of the movement. Concepts such as Arabism, Arab unity, Arab nationalism are among the terms that we will investigate along with their contextualization in different regions of the Middle East by various actors. Factors which contributed to the development and/or decline of the Arab nationalist movement will be examined are: colonialism, the dissolution of the Ottoman Empire, the World War I and WW-II, the emergence of the State of Israel, the Egyptian Revolution and the rise of Al-Nasser, Islamic resurgence and the recent incidents in the region. The ideological links between Arab nationalism and modern radical movements will also be examined. Credit units: 3 ECTS Credit Units: 6.

HIST 595  Seminar in American History I
Independent work on the history of the United States in the nineteenth century. Credit units: 3 ECTS Credit Units: None.

HIST 599  Master’s Thesis
Credit units: None ECTS Credit Units: None. Aut (Staff) Spr (Staff)

HIST 605  History of Ottoman Diplomacy
This course provides our students with a focused survey and analyses of Ottoman diplomatic history from the beginning to the end of the Empire. The course shall look at the ways in which Ottomans conducted diplomacy, granted concessions and enacted agreements during different time periods, as well as the historical development of institutions that practiced diplomacy. Our focus will be on the diplomatic interactions and the social, economic, political, and cultural contexts in which they take place. When powerful, the Ottomans dictated their will on their rivals but starting from the early 18th century the Ottomans had to negotiate with other powers and employed non-Muslims who spoke foreign languages in the service of the government, eventually creating a new office, Hariciye Nezaret. The course will evaluate several important turning points in the history of the Ottoman Empire by specifically looking at the diplomatic relations which defined these important moments i.e. among several others, the Ottoman-Russian and Ottoman-Iranian wars, the Berlin Congress, Refugee
Problems, the Balkan Wars and World War I. The intensified practice of diplomacy, public diplomacy and the influence of Ottoman reforms on its relations with foreign powers during the nineteenth century will also be scrutinized. The diplomatic efforts of the founding cadres of the Turkish Republic after the World War I and during the National Struggle for Independence will also be dealt with.

Objectives of the Course
- to analyze the process through which the Ottoman Empire enacted its diplomatic relations
- to gain a historical insight about the legacy of Ottoman and European diplomatic relations from the 14th to the 20th centuries.
- to develop a better understanding of the internal and external dynamics of the ways Ottoman diplomatic strategies
- to gain insight about the important events in the history of Ottoman relations with Europe, Asia, Russia and other parts of the world. Credit units: 3 ECTS Credit Units: 6.

HIST 617 Ottoman Intellectual Life in the Reform Period, 1839-1914

HIST 670 Topics in the History of Communism 1847-1953
This course takes the outstanding moments and writers in the history of Communism. It starts of course with Marx and the Communist Manifesto, and proceeds through the construction of Capital and the International to a discussion of the emergence of socialism especially in France and Germany. It moves on to a consideration of Lenin's adaptation of Marx to fit the world of Imperialism, and the position of large semi-capitalist states such as Russia (and later China). The success of the Bolsheviks in Russia alone is discussed, and then the emergence of the USSR as a super-power, especially with the Second World War. The course ends with the death of Stalin in 1953. Credit units: 3 ECTS Credit Units: 6. Spr (N. Stone)

HIST 692 Pre-Thesis Seminar
Credit units: None ECTS Credit Units: None. Aut (Staff) Spr (Staff)

HIST 693 Pre-Thesis Seminar
Credit units: None ECTS Credit Units: None. Aut (Staff) Spr (Staff)

HIST 699 Ph.D. Dissertation
Credit units: None ECTS Credit Units: None. Aut (Staff) Spr (Staff)

HIST 701 British Societies 1793-1901
The course treats of the particular histories, i.e. social, cultural, economic, religious, political, etc., of the nations and regions of the British Isles in the nineteenth century. Credit units: 3 ECTS Credit Units: 6. Aut (C. D. A. Leighton)

HIST 702 Modern Middle East since 1800
The Middle East stands at the focal point of International System and claims quite a big deal of our current political debates, a situation which is going to last for several years to come. Most of the current political issues surrounding the Middle East have roots in the complex and complicated history of the region, which suggest the necessity of a historical framework. This course is designed to fill that gap. Modern Middle East Since 1800 explores history of the modern Middle East since 1800. The geography and the concept that we call ‘the Middle East’ emerged mainly in parallel with the dissolution of the Ottoman Empire. A specific attention therefore will be given to what was there before the region had turned into its present form, what we know as the Middle East. The course is organized around themes and chronological events, surveying a wide range of issues: Themes that we will investigate include but are not limited to the rise of European Empires, Napoleonic invasion of Egypt, the notions of decline, modernization and colonization; Constitutionalism, nationalism, Abdulhamid and Islamism, the Committee of the Union and Progress, partitioning of the Ottoman lands after the World War I and the emergence of the new state system in the post war era. Historical and contemporary interactions between the Middle East and Europe will also be underlined. Among the central questions we will examine are the response from Ottoman societies to the challenges of colonialism and secular modernism; and, the clash between outside and local forces. Studying the history of the region will shed a better light on our understanding of the most recent developments in the region (i.e. crisis revolving around Arab Spring countries) and, help us better contextualize future challenges. Students will be exposed to original source materials that frame the key issues in the modern Middle East and engage in non-partisan discussion through written and oral presentations.
Credit units: 3 ECTS Credit Units: 6. Aut (M. A. Kirecci)

HIST 703 Ireland and Irish America 1603-1921
The course seeks to be useful to students both of European and of North American History Irish History in the Modern period is explored in the context of the Histories of Europe and the Atlantic World. Much attention is paid to the topic of Migration with discussion of the role of Irish Americans in the Political, Social and religious History of the United States from the Eighteenth to the Early Twentieth Century. Credit units: 3 ECTS Credit Units: None.
HIST 705  History of Russia: From Tsardom to Empire  
Course content begins with the founding of the first Russian state and continues to the Eastern question and Russo-Turkish war 1877-1878. The course will introduce the student to the basic facts of Russian history paying attention to the following key periods: origins of Russia-Kievan Rus; Mongol Invasions and Mongol-Tatar suzerainty of the Golden Horde; the rise of the princes of Moscow and Moscovite Tsardom; imperial Russia under the Romanov dynasty. Special attention will be devoted to Ottoman-Russian relations and to imperial Russian policy in the Balkans.  
*Credit units: 3 ECTS Credit Units: None. Aut (E. R. Radushev)*

HIST 707  The United States and the Second World War  
A research seminar on the history of U.S involvement in the Second World War. Topics include American isolationism, the decision to intervene, wartime strategy, operations and diplomacy, leadership and relations with Allies, the "home front" the war economy, and impact of the war upon American society and culture.  
*Credit units: 3 ECTS Credit Units: None. Spr (K. Weisbrode)*

HIST 709  Hanover the British Isles and the Americas: Dynasty and Empire 1714-1837  
The course offers a general survey of the history of Hanover, the British Isles and the overseas territories of their dynasty (with particular attention to the North American colonies), from its acquisition of the British throne in 1714 to the accession of Queen Victoria in 1837. It is intended for students of European and American history and of the history of empires.  
*Credit units: 3 ECTS Credit Units: None.*

HIST 710  Topics in Modern European History 1870-1970  
This course will take the most significant episodes of modern European (and in part world) history with a view to encouraging students' interpretive abilities. The topics will be Imperialism around 1890, the "Great Depression" of the later nineteenth century and what it meant, the spread of parliamentary constitutionalism, the rise of Socialism and of a new Political Catholicism. Minority nationalism will be examined, and the rise of Fascism and Communism. The course ends with the attempt to create a new Europe after 1947, and the involvement of the USA.  
*Credit units: 3 ECTS Credit Units: 6. Aut (N. Stone)*

HIST 711  Russia and Turkey  
*Credit units: 3 ECTS Credit Units: None. Spr (N. Stone)*

HIST 712  Political Thought from the Reformation to the American Civil War  
The course is structured around a series of major upheavals in the British Isles and English speaking North America from the Mid-16th to the Mid-19th century, rather than around canonical texts, which often lack contemporary importance. The periods of disturbance particularly considered are: that of the English and Scottish Reformations; that of the civil wars of the mid-17th century and the Inter-regnum in the Stuart Kingdoms (1639-60); the period of the regime change in those Kingdoms(1888-92);that of the American Revolutionary War (1775-83); and that of the war between the States. The course considers those disturbed times was certain contemporary political beliefs and to allow comment on their possible influences on subsequent political thought.  
*Credit units: 3 ECTS Credit Units: 6.*

HIST 713  History of European Integration  
This Seminar explores the history of the European movement from a political, social, economic and cultural perspective from the interwar period through the end of the Cold War. Topics include alternate visions of Europe, the histories of European institutions and legal regimes, the trajectory of 'widening' and deepening, the relations between European integration and the Cold War, biographies of the principal figures in the European movement (Briand, Monnet, Schuman, Spinelli, Delors, etal), and legacies of European federalism in present-day relations of the EU with wider world.  
*Credit units: 3 ECTS Credit Units: 6. Aut (K. Weisbrode)*

HIST 714  Central Eastern Europe (1815-1945)  
This course will cover assorted topics in the modern history of Central Europe, extending from the later nineteenth century to 1970, with the possibility, for IR students, of studying the late-Communist period. The area involved stretches from Poland to the Balkans, but the students will be able to concentrate on countries that are of particular interest to them, e.g. Yugoslavia or Hungary. Some themes of great importance will be treated: the failure of parliamentary Liberalism (the 1890's and 1900's), the treatment of questions of nationalism and minority rights throughout the period; the rise of left-wing and political-Catholic parties; the relationship of agriculture and economic development; and the extraordinary cultural flourishing associated with 'Vienna 1900' but also extending to Prague and particularly Budapest; the process of Communist take-over. With the exception of some memoirs, the existing English-language literature should be adequate for the course.  
*Credit units: 3 ECTS Credit Units: None. Aut (N. Stone)*
DEPARTMENT OF INTERNATIONAL RELATIONS


International Relations (IR) is a relatively new discipline. Its importance, however, has been rapidly growing in recent decades. All of us are affected by the international environment and by foreign policy decisions. International issues are becoming increasingly significant, complex, and diversified. We often read and hear about such issues as the Arab-Israeli conflict, the Aegean dispute, the post-Cold War period, the European Union, arms control negotiations, and problems of international trade and finance. All these issues lend themselves to conflicting interpretations and competing alternative solutions. In order to grasp the significance of these contemporary problems, we need to have not only a certain degree of specialized knowledge about the geographical regions in question, but also some theoretical understanding of International Relations.

Career opportunities in the field increase as Turkey’s foreign relations diversify. The diplomatic service and other sectors of public bureaucracy continue to be an important source of employment. In addition to this, the media, private sector, professional organizations, and universities need increasing numbers of specialists in international affairs.

UNDERGRADUATE PROGRAM

The undergraduate program is comprised of a broad set of integrated courses designed to provide the training and perspective necessary for future career responsibilities in the field of International Relations. These courses emphasize increased competence in IR specialties such as International Law, Diplomatic History, Politics of International Economy, Foreign Policy Analysis, Global Issues and Area Studies. The teaching objectives are to maintain the crucial balance between theory and practice and to ensure that every student is exposed to the latest understanding of all the key IR issues and to the conceptual and analytical frameworks underlying them.

The core set of courses provides the fundamentals of the field of IR while a wide variety of elective courses, to be taken from the department as well as from the Departments of Political Science, Economics and Management, permits students to develop a program that will meet personal needs and special career interests.

For students who choose to pursue a more advanced degree in the field, the Department offers a Master’s degree program and a doctoral degree program with considerable flexibility for graduate students to develop specialized academic programs to suit their needs and interests.

FIRST YEAR

<table>
<thead>
<tr>
<th>Autumn Semester</th>
<th>Credits / ECTS Credits</th>
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<tbody>
<tr>
<td>ECON 107</td>
<td>Principles of Microeconomics</td>
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<tr>
<td>ENG 101</td>
<td>English and Composition I</td>
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<tr>
<td>GE 100</td>
<td>Orientation</td>
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<tr>
<td>HCIV 101</td>
<td>History of Civilization I</td>
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<tr>
<td>POLS 101</td>
<td>Introduction to Political Science I</td>
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<tr>
<td>SOC 101</td>
<td>Introduction to Sociology</td>
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<tr>
<td>TURK 101</td>
<td>Turkish I</td>
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<tr>
<th>Spring Semester</th>
<th>Credits / ECTS Credits</th>
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<tbody>
<tr>
<td>CS 121</td>
<td>Introduction to Computing for Social Sciences</td>
</tr>
<tr>
<td>ECON 108</td>
<td>Principles of Macroeconomics</td>
</tr>
<tr>
<td>ENG 102</td>
<td>English and Composition II</td>
</tr>
<tr>
<td>HCIV 102</td>
<td>History of Civilization II</td>
</tr>
<tr>
<td>IR 101</td>
<td>Introduction to World Politics</td>
</tr>
<tr>
<td>TURK 102</td>
<td>Turkish II</td>
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</table>
In addition to elective courses offered by the Department of International Relations, students are allowed to take electives from the departments of Economics, Political Science, Psychology, Faculty of Law, Management and/or Philosophy or foreign language courses, among others.

**BILKENT-BINGHAMTON DUAL DIPLOMA PROGRAM**

in Global and International Affairs

The dual diploma program Bilkent-Binghamton, SUNY bachelor's degree in Global and International Affairs (GIA) offers students at Bilkent University a unique program of interdisciplinary study in International Relations, History, Economics and other fields yielding high-level substantive knowledge and analytical skills for careers requiring global perspectives on international issues of various kinds. This four-year program includes full-time enrollment for four semesters at Binghamton University, the SUNY doctoral campus most noted for its undergraduate excellence, its comprehensive internationalisation, and its history of fruitful association with Turkish universities. Students in the
program meet all of the requirements for a Bachelor's degree both at Binghamton University and at Bilkent University. Although degree recipients receive two diplomas, one from each institution, both diplomas refer to the degree as jointly awarded, and no student can receive the degree or either of the diplomas without satisfying the academic requirements of both institutions. To be able to start the program, students must achieve a satisfactory score, specifically a 550 or better (plus a score of 4 in the written part) on the U.S. Test Of English as a Foreign Language (213 on the computer based, 80 on the internet based and written part 4) or with no less than 5.5 for each section overall score 6.5 on IELTS (International English Language Testing System). (It is not possible to start the program without having a satisfactory score.)

Minimum credits for the joint Bachelor's Degree in Global and International Affairs is 126 (minimum of 50 credits from each partner).

Following is the first and third year courses to be taken at Bilkent University.

FIRST YEAR (Bilkent University)

<table>
<thead>
<tr>
<th>Autumn Semester</th>
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<tbody>
<tr>
<td>CS 121  Introduction to Computing for Social Sciences</td>
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<tr>
<td>ECON 107 Principles of Microeconomics</td>
<td>3 / 6</td>
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<tr>
<td>ENG 101 English and Composition I</td>
<td>3 / 6</td>
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<tr>
<td>GE 100 Orientation</td>
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<tr>
<td>HCIV 101 History of Civilization I</td>
<td>3 / 6</td>
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<tr>
<td>POLS 101 Introduction to Political Science I</td>
<td>3 / 6</td>
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<tr>
<td>TURK 101 Turkish I</td>
<td>2 / 1</td>
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</table>

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<thead>
<tr>
<th>Spring Semester</th>
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<tr>
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<tr>
<td>ENG 102 English and Composition II</td>
<td>3 / 6</td>
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<tr>
<td>HCIV 102 History of Civilization II</td>
<td>3 / 6</td>
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<tr>
<td>IR 101 Introduction to World Politics</td>
<td>3 / 6</td>
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<tr>
<td>MATH 264 Statistics for Social Sciences</td>
<td>3 / 6</td>
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<tr>
<td>TURK 102 Turkish II</td>
<td>2 / 1</td>
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SECOND YEAR (Bilkent University)

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<thead>
<tr>
<th>Autumn Semester</th>
<th>Credits / ECTS Credits</th>
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<tbody>
<tr>
<td>HIST 200 History of Turkey</td>
<td>4 / -</td>
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<tr>
<td>IR 399 Summer Training</td>
<td>- / -</td>
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<tr>
<td>Restricted Electives (2)</td>
<td>6 / 12</td>
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<tr>
<td>Unrestricted Electives (3)</td>
<td>9 / 18</td>
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<td>6 / 12</td>
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THIRD YEAR (Bilkent University)

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</tr>
<tr>
<td>Restricted Electives (2)</td>
<td>6 / 12</td>
</tr>
<tr>
<td>Unrestricted Electives (3)</td>
<td>9 / 18</td>
</tr>
</tbody>
</table>

(Binghamton University)

Binghamton will specify which courses are to be made available to students in this program in a given year. Binghamton also provides advising prior to students' arrival in Binghamton and during their stay to ensure that they enroll in courses appropriate to their individual academic and personal backgrounds, needs, and interests. Following is a minimum credit breakdown by category (please note that some of these credits will be satisfied with courses taken at Bilkent):

- Political Science: 32 credits
- History: 32 credits
- Economics: 9-12 credits
- Research Methods: 6-8 credits
- General Education: 36 credits (some of which will be satisfied with courses taken in above categories)
- Writing 111: 4 credits (to be taken during students' first semester of Binghamton)
MINOR PROGRAM

The minor degree program in International Relations offers Bilkent University students with an interest in world politics a solid basis for understanding world politics in a globalizing world as well as Turkey's international relations. The minor degree program is made up of four must courses: Introduction to World Politics, 20th Century World Politics, Foreign Policy Analysis, and International Relations Theory. Students also take three elective courses of their own choosing. The Department offers a wide variety of courses, all of which are open to minor degree students (subject to availability).

Prerequisite Courses: IR 101 Introduction to World Politics

CURRICULUM

<table>
<thead>
<tr>
<th>Courses</th>
<th>Credits / ECTS Credits</th>
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</thead>
<tbody>
<tr>
<td>IR 236 20th Century World Politics</td>
<td>3 / 6</td>
</tr>
<tr>
<td>IR 333 Foreign Policy Analysis</td>
<td>3 / 6</td>
</tr>
<tr>
<td>IR 335 International Relations Theory</td>
<td>3 / 6</td>
</tr>
<tr>
<td>Electives (3)</td>
<td>9 / 18</td>
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</table>

GRADUATE PROGRAMS

Master of Arts in International Relations

Admission: Prospective students must have completed the Bilkent University requirements for a Bachelor of Arts degree in International Relations or approximately equivalent training. (Also refer to the “Graduate Admissions” section in the introduction of this catalog for the general graduate admission requirements.)

Degree Requirements: A completed program must satisfy the following criteria:

1. Completion of at least 26 units of credit course work. The seven required international relations courses include the following: International Relations Theory, Academic Writing, Research Methods, Issues in Turkish Foreign Policy, Pre-Thesis Seminar, Academic Practices, and Master Thesis. The four elective courses can be selected from the offered graduate courses each semester.

2. Completion of an M.A. thesis proposal before the start of the second year.

3. An M.A. thesis must be submitted to and approved by the thesis defense committee.

4. A cumulative grade point average of at least 3.00 must be maintained for the totality of Master's level work.

Master of International Affairs and Public Policy (MIAPP)

The curriculum of the Master of International and Public Policy (MIAPP) is designed to provide students with a broad analytical background in the major fields of international affairs and European integration, combined with the specific focus on the newly emerging issues of governance and globalization. The program of study requires 60 units of graduate credits and is completed in four terms of full-time attendance without the requirement of submission of a Master's thesis.

By underlining updated knowledge and skills essential to careers in international, private, and public sectors, the program responds to new professional opportunities at home as well as abroad. The program addresses the fundamental issues of the post-Cold War era, globalization, public governance, corporate governance and European integration with an approach that incorporates scholarly perspective and practical experience.

Requirements for Application: An undergraduate degree in international relations is not a prerequisite for admission. Graduates of other disciplines are also eligible and are encouraged to apply.
## CURRICULUM

<table>
<thead>
<tr>
<th>Courses</th>
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<tbody>
<tr>
<td>ECON 507 Economics for International and Public Affairs I</td>
<td>3 / 6</td>
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<tr>
<td>ECON 508 Economics for International and Public Affairs II</td>
<td>3 / 6</td>
</tr>
<tr>
<td>ENG 406 Graduate Writing and Presentation Seminar</td>
<td>3 / -</td>
</tr>
<tr>
<td>IR 547 International and Public Policy Decision Making</td>
<td>3 / 6</td>
</tr>
<tr>
<td>IR 547 International Politics</td>
<td>3 / 6</td>
</tr>
<tr>
<td>IR 572 European Union Integration, EU and OECD Economies</td>
<td>3 / 6</td>
</tr>
<tr>
<td>IR 574 Turkey's International Relations</td>
<td>3 / 6</td>
</tr>
<tr>
<td>IR 594 International Law and Organizations</td>
<td>3 / 6</td>
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<tr>
<td>IR 629 Global Political Economy</td>
<td>3 / 6</td>
</tr>
<tr>
<td>MAN 509 International Business</td>
<td>3 / 6</td>
</tr>
<tr>
<td>MIAPP 501 Term Project</td>
<td>- / -</td>
</tr>
<tr>
<td>Restricted Electives (8)</td>
<td>24 / 48</td>
</tr>
<tr>
<td>Unrestricted Electives (2)</td>
<td>6 / 12</td>
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</tbody>
</table>

**Electives:** (Eight of the following)

All 5XX or higher-level courses with at least 3 credits.

**Electives:** (Two of the following)

All 3XX or higher-level courses with at least 3 credits.

### Doctor of Philosophy in International Relations

The doctoral program at Bilkent IR is a highly specialized program. Its purpose is to develop the skills of doctoral candidates in international political analysis and to increase their capacity to conduct research on theoretical issues, international security studies, strategic studies, comparative foreign policy, international political economy, regional integration, global environmental problems, international law, peacekeeping and conflict resolution as well as area studies such as the European Union, the Balkans, Russia, the Middle East, Central Asia and the Caucasus. The program is reserved for a limited number of students who are qualified and committed to spend several years conducting intensive research. The program is particularly suitable for students who wish to pursue an academic career.

**Degree Requirements:** Students accepted to this program must complete at least 26 credit hours of course work (prerequisite courses not included in this total are IR 501 International Relations Theory, which is a prerequisite for IR 621 Current Debates in International Relations Theory, and IR 519 Research Methods, which is a prerequisite for IR 699 Ph.D. Dissertation). Students may take elective courses from other departments in accordance with IR Ph.D. curriculum requirements. A cumulative grade point average of at least 3.00 must be maintained for the totality of Ph.D. coursework. The doctoral program must be completed in at most 12 semesters.

### COURSE DESCRIPTIONS

#### UNDERGRADUATE COURSES

**IR 101 Introduction to World Politics**

This course introduces students to international relations by presenting the basic concepts, approaches and major contemporary currents in world politics. The purpose of the course is to provide students with a framework for analysis whereby they can understand and evaluate international phenomena. It covers a wide range of topics including security issues such as war, terrorism, diplomacy and arms control; ecological issues such as climate change and resource depletion, and economic issues such as development, world trade and globalization. **Credit units:** 3 ECTS **Credit Units:** 6. Aut (S. Buldanlıoğlu Şahin, A. Gkouti) Spr (D. Altnbaş, A. Gkouti, N. Shoughry)

**IR 205 Diplomatic History**

Diplomatic history from the Peace of Westphalia until World War I. **Credit units:** 3 ECTS **Credit Units:** 6. Aut (A. Kılıç, S. H. Kirmili) Spr (S. H. Kirmili)

**IR 227 Research Methods in International Relations**

This course aims to introduce the students how to design an IR research paper and gradually write one throughout the semester. The students are familiarized with the basic concepts of research philosophies and methods such
as formulation of a good research question, a theory, hypotheses and data collection & analysis techniques. The course does not only focus on theory but also makes the students acquainted with applied and empirical research. For that purpose, students get first hand experience on how to do library research by actually going to the library and meeting with a library advisor. Overall, the objective of the course is to build a basic background in students who are later in their training expected to write good research papers. **Credit units: 3 ECTS Credit Units: 6. Aut (G. Ertan, P. İpek) Spr (S. Ş. Güner)**

**IR 236 20th Century World Politics**  
This course introduces students to critical events and dynamics of the 20th Century, including but not limited to the League of Nations, inter-war period, World War II, United Nations, Cold War, (super-power conflict and the Non-Aligned Movement), Détente; Second Cold War, the revolutions of 1989 and post-Cold War challenges to the international system. **Credit units: 3 ECTS Credit Units: 6. Aut (C. M. Hoffmann) Spr (C. M. Hoffmann, A. Kileç)**

**IR 303 International Law**  
The first part of a comprehensive survey of international law as the normative factor in international relations, to be continued in IR 304. The basic legal concepts are described and explained, together with a view of prospective developments. Rules of law are considered in their political, economic and cultural contexts, while emphasizing their normative character and the elements of legal reasoning. **Credit units: 3 ECTS Credit Units: 6. Aut (K. B. Shoemaker) Spr (Ô. Sav)**

**IR 305 International Organizations**  
A comprehensive study of the development of international organization and its role in the contemporary world. The central part of the course deals with the United Nations, its structure, performance and prospects, both in the maintenance of peace and in the economic and social field. Then specialized agencies and the regional organizations are treated on a descriptive basis. **Credit units: 3 ECTS Credit Units: 6. Aut (C. E. Mutlu) Spr (ÈO. Sav)**

**IR 308 Turkic/Muslim People of the Former USSR**  
Russian Rule over the Turco-Muslim lands, the enlightenment and national revival of the Turco-Muslim peoples; establishment of Soviet power, communist rule and the road to national independence. **Credit units: 3 ECTS Credit Units: 6.**

**IR 311 Russian History**  
A survey of Russian History from the rise of Kievan Confederation (9th century) to the Bolshevik Revolution. Focus will be on reform, revolution, ideology and society. **Credit units: 3 ECTS Credit Units: 6. Spr (S. H. Kırımlılı)**

**IR 322 International Protection of Human Rights**  
Analyzes the concept of human rights firstly at the domestic level and then shifts the focus to the international level. During these analyses minority rights are also analyzed from the point of the treaties signed by the Ottomans and the Turkish Republic. The turning point in the protection of human rights at the international level commences by the U.N. Due to this all the developments in the U.N. and also in the Council of Europe in this particular field are analyzed in detail. **Credit units: 3 ECTS Credit Units: 6. Aut (S. A. Vite) Spr (S. A. Vite)**

**IR 332 International Relations Theory**  
This course provides students with a comprehensive introduction to contemporary international relations theory. No prior knowledge of international theory is expected. **Credit units: 3 ECTS Credit Units: 6. Prerequisite: IR 101. Aut (A. Bilgiç, N. S. Şatana) Spr (T. Fougner)**

**IR 333 Foreign Policy Analysis**  
The making and implementation of foreign policy in theory and practice. The theoretical literature on foreign and security policymaking. Case Studies. **Credit units: 3 ECTS Credit Units: 6. Aut (S. Ş. Güner) Spr (A. Bilgiç, I. Ö. Özdamar, N. S. Şatana)**

**IR 335 International Relations Theory**  
The making and implementation of foreign policy in theory and practice. The theoretical literature on foreign and security policymaking. Case Studies. **Credit units: 3 ECTS Credit Units: 6.**

**IR 338 Politics of International Economy**  
The aim of this course is to provide students with a comprehensive introduction to International Political Economy (IPE) as a field of study. The course focuses on recent developments and current trends in the world political economy, various theoretical IPE-perspectives, as well as more specific topics such as international monetary affairs, global finance, foreign debt, international trade, global production, foreign direct investment, transnational corporations, and development. **Credit units: 3 ECTS Credit Units: 6. Aut (T. Fougner, P. İpek) Spr (P. A. Williams)**

**IR 347 The International System**  
Some international relations theories would argue that most of the problems and opportunities the world faces today are related to the structure of the modern international system. This course examines the historical and theoretical evolution of the international system, with particular emphasis on the last two centuries. The main objective is to see which ideas and events have shaped the structure of the current system, as well as how the
structure has shaped ideas and events. The students are expected to actively participate in the class discussions. Credit units: 3 ECTS Credit Units: 6.

**IR 349 International Relations in Movies**

This course will use movies to understand and explain international issues. Through classroom discussions, readings and films that deal with international issues, we will analyze how these films shed light on international affairs, how they show us different perspectives on such issues and deepen our understanding. We will see 6 to 8 movies during the semester and discuss how the content of the movie relates to what you have learned in your studies in international relations. In these movies and readings, we will focus on issues like foreign policy making, war, terrorism, ethnic conflict, identity, environmental issues, revolutions, civil wars, foreign intervention, international institutions, espionage, Cold War and so on. Credit units: 3 ECTS Credit Units: 6. Spr (I. Özdamar)

**IR 350 Negotiation and Mediation in Politics**

This course focuses on both the theory and practice of negotiation and mediation concerning legal and political conflicts. The course covers a wide range of issues concerning negotiations including the different theories of bargaining, different outcomes of negotiations, processes of negotiation, psychological dynamics affecting negotiations, effective communication strategies, the role of language, culture, and power in negotiations, and the role of third parties in negotiations. An important part of the class is devoted to teaching the applied negotiation and mediation skills to students. Towards the end, the students will carry out negotiation simulations and role plays related to various legal and political negotiations. In addition to the role plays and simulations, the course will also discuss several negotiation cases in detail including the negotiations over the Turkish Constitution, Cyprus, and Jerusalem. Credit units: 3 ECTS Credit Units: 6. Spr (C. Çuhadar Gürikaynak)

**IR 351 Globalization**

The focus of this course is globalization—a concept encompassing the transnational linkages that increasingly characterize today's world. As an introductory course, the aim is to develop a base of knowledge, analytical skills, and a vocabulary of concepts useful both for understanding globalization and for further engagement with the multi-dimensional concerns of International Relations. It also aims to analyze and predict the emerging dynamics of global politics, not necessarily only related to international patterns but to include as well transnational and domestic politics. In the course, we will examine "global" theories that seek broadly to explain the patterns of interaction and conflict that are likely to dominate our world in the near and longer-term; try to situate globalization in historical context; and look at the relationships between globalization and culture, people flows across state borders, nationalism and ethnicity, security, democracy, religious fundamentalism, gender, the environment, and economics. Finally, we will consider these concepts by looking at their interaction in the Turkish case. Credit units: 3 ECTS Credit Units: 6. Aut (E. Aydınlı)

**IR 352 Environmental Issues and Ecological Sustainability**

The course will explore environmental issues such as energy, water resources, global warming, climate change, natural disasters, food production, and biodiversity at local, national and international levels. Students will analyze how these issues affect not only the environment, but also the economy, the health and wellbeing of people, the lives of other organisms, and the future of the planet. The class will co-create experiences to gain an appreciation of policies and protocol to shape a more sustainable ecological future. The course begins with students analyzing their ecological footprint, followed by an audit of Bilkent University's resource management policies. Through a review of regional and national media sources, the class will identify environmental issues important to the city of Ankara, and more generally to Turkey. Based on research and findings, teams will select an issue to investigate, analyzing challenges and opportunities to develop a proposal for the resolution of a selected issue. Credit units: 3 ECTS Credit Units: 6. Aut (J. F. Lane)

**IR 353 Energy Security and Foreign Policy**

This course examines the challenge for energy security in relation to foreign policy analysis. The course has three parts. The first part outlines the continuities and changes in the global energy market to underlie the emerging challenges in securing energy supplies, access to resources and the environment. The second part presents different theoretical approaches to facilitate a conceptual framework in analyzing how energy security relates to foreign policy. The third part focuses on selected issues and cases to analyze and discuss energy security and foreign policy in the light of the different conceptual frameworks presented in the second part of the course. Credit units: 3 ECTS Credit Units: 6. Spr (P. Ipek)

**IR 354 Introduction to Middle East Politics**

This is an introduction course to key issues in domestic and regional politics in the Middle East which aims to provide an overview of the main political developments of the region, and acquaint students with a major centre of world affairs. In this course, students will be introduced to the complexity of the Middle East and its politics, while attempting to understand the dynamics that shape the region. In addition, students will explore key conceptual frameworks through which the Middle East is studied and understood. Credit units: 3 ECTS Credit Units: 6. Aut (N. Shoughry) Spr (N. Shoughry)
IR 355  Public Policy Making in the European Union
This course is about policy processes in the EU. It is designed to equip students with knowledge, skills and research experience to analyze the challenges in the EU decision-making process. During the lectures, we will try to understand the policy making process in the EU by touching on the most complicated policy areas. Specific focus will be put on the current financial crisis and contemporary debates on the future integration of the EU. At the end of this course, students should be familiar with the complex EU policy making and policy implementing processes with a capacity to examine supranational policy problems and controversies, as well as to develop solutions in the field. The participants of the course will be able to analyze the political environment of European public policy and form effective strategies. Credit units: 3 ECTS Credit Units: 6. Aut (D. Altınbaş) Spr (D. Altınbaş)

IR 399  Summer Training
This course refers to the internship course which will need to be satisfied with an internship to be conducted during the summer of the end of the third year in the program. The course will be a non-credit (0 credit) course to be marked as S or U. To be satisfied by undertaking 20 days of internship during the summer and the submitting a report based on the experience. Credit units: None ECTS Credit Units: None. Aut (Staff) Spr (Staff)

IR 413  Game Theory and International Politics
This course is designed to study rational behavior related to conflict. Substantively, it focuses on strategic rationality underlying 1. bargaining; 2. deterrence; 3. surprise attack. Credit units: 3 ECTS Credit Units: 6. Spr (S. Ş. Güner)

IR 439  Turkish Foreign Policy
Analysis of Turkish Foreign Policy from the beginning of the Republic until 1950. Credit units: 3 ECTS Credit Units: 6. Aut (N. B. Criss, O. Gökçe) Spr (N. B. Criss, O. Gökçe)

IR 454  International Environmental Politics
This course will focus on applying divergent theoretical approaches (realism, neoliberal institutionalism, domestic politics, epistemic communities, critical theory, feminism, etc.) to analysis of the causes, consequences, and resolvability of a representative range of international environmental political issues, from disputes relating to transboundary water shortages and degradation to global common property issues (especially ozone layer depletion, acid rain, and global warming). Credit units: 3 ECTS Credit Units: 6. Aut (P. A. Williams)

IR 455  The European Union and Turkey
This course aims to analyze the dynamics of Turkey's relations with the European Union since the foundation of official relations in the early 1960s till now. The particular issues to be analyzed are the following: The reasons for Turkey’s application for membership in the EU, the reasons for the European Union to embrace an ambiguous attitude towards Turkey’s membership, the role of the European Union in the Cyprus dispute, the impact of the September 11 on the dynamics of Turkey-EU relations, and the role of the United States in the general EU-Turkey relations. Credit units: 3 ECTS Credit Units: 6.

IR 463  Political Economy of Turkey
This class is designed to give an overview of the political economy of modern Turkey. It begins with an introduction to the history of social coalitions dominating Turkey’s political economy between 1908 and 1980. It then proceeds with a thematic focus on the current issues of Turkish political economy. Among the current issues discussed are: politics of economic reforms; political economy of state-market relations; political economy of Turkey’s relations with the IMF/World Bank, EU and USA; political economy of state-society relations; political economy of Turkish democracy; and political economy of income redistribution, and corruption. Credit units: 3 ECTS Credit Units: 6.

IR 464  History of the Cold War
The history of the cold war spans 1946-1991. This course is designed as an explanation of major cold war events, foreign and Sewny policies of the superpowers, as well as those of their respective allies; the socio-economic trends that influenced thaws and eventually caused the end of the cold war. Credit units: 3 ECTS Credit Units: None. Spr (N. B. Criss)

IR 470  International Terrorism and Transnational Crime
This course is designed to give students a comprehensive understanding both conceptual and practical of the topics of international terrorism and transnational crime. On the conceptual side, the theories, origins, definitions, forms, strategies/tactics, international relations and countering strategies of international terrorism and transnational crime will be explored. On the practical side, we will have guest speakers who are active counter terrorism/organized crime professionals, as well as having the opportunity to visit relevant departments of the national and military police commands. The course will be run on a lecture/seminar basis, and will include a simulation activity of an international terrorist act, which will involve the participation of all class members. Credit units: 3 ECTS Credit Units: 6. Spr (E. Aydınlı)

IR 472  Diplomatic Language and Translation
The purpose of this course is to familiarize the student with diplomatic language, which is different from the language used in ordinary life. The difference stems mostly from the terms and expressions used that have a meaning other than those found in dictionaries. The course is an introduction to the art of communication and
Political Economy of Natural Resources
This course introduces students to the importance of natural resources in the international political economy. It explores: how previously marginal actors on the energy scene, such as China, India, Russia, Turkey and their Caucasian and Central Asian neighbors, have become more central; the extent to which European Union energy requirements are driving this shift; how this shift is reshaping multinational business strategies; how ethnic conflict and terrorism are posing salient risks to major hydrocarbon supplies and supply lines; and the degree to which the need to preserve environmental integrity will ultimately limit fossil-fuel consumption. Credit units: 3 ECTS Credit Units: 6. Aut (O. Gökceme) Spr (O. Gökceme)

Contemporary Trends in Eurasia
This course examines certain selected political developments in Eurasia and studies the construction of new international and national institutions in the post-Soviet space since 1991. A special focus will be given to contemporary “revolutions,” democratization and regional cooperation efforts. Credit units: 3 ECTS Credit Units: 6.

European Political Economy
This course is designed to introduce students to the political economy of the European Union. It starts with an overview of the links between globalization and European integration. It then focuses on the main political economy challenges that the EU faces today. Specific issues include, but not limited to, competitiveness, cohesion, demographic change, migration and xenophobia, unemployment and social polarization, enlargement and transition, and regionalism and regionalization. The course ends with a discussion of the place of the EU in the world. Credit units: 3 ECTS Credit Units: 6.

Gender in International Relations
The aim of this course is to highlight the role played by gender in world politics. The course locates a concern with gender in the broader context of International Relations as a field of study, and seeks to uncover and critically assess the gender dimension of key IR-issues such as war, peace, security, international political economy, development, and human rights. Credit units: 3 ECTS Credit Units: 6. Spr (T. Fougner)

European Union
This course is designed to introduce the students to the history, institutions and policies of the European Union. It aims to develop an understanding of the basic dynamics of the European integration with a view of national and global contexts in which the EU has evolved towards an “ever closer union”. The course does not require previous study on the EU. Credit units: 3 ECTS Credit Units: 6. Aut (D. Tsarouhas)

Causes and Prevention of War
This course examines the causes and prevention of war. The goal is to discover and assess why interstate and intrastate (civil) wars take place and how to prevent or at least control them. The first part of the course focuses on theoretical aspects of war and in the second part we aim to empirically understand war through the study of various case studies. The two world wars, ethnic cleansing in states such as Rwanda are only a couple of the cases we cover. By the end of the course students will be familiar with basic theories of causes of war and cases associated with them. Finally, an assessment of the possible causes of wars of the future, namely terrorism follows with a focus on possible means to prevent such wars. The course objective is to involve the students in an in-depth examination of war through discussion of extensive readings, class presentations and critical essay writing. Credit units: 3 ECTS Credit Units: 6. Spr (N. S. Şatana)

World Energy Politics
Energy resources and their geographical distribution. Advances in energy technologies, reference and alternative scenarios on energy. Supply and demand. Factors and actors affecting the oil prices. Major actors in the energy scene (States, organisations, etc). Main principles of energy policy. Energy policies and strategies of principal actors (U.S., Russian Federation, E.U., China and others). Concept of the energy security. Turkey’s resources and energy policies. Will Turkey be an energy bridge? The importance of international relations on energy policies. Credit units: 3 ECTS Credit Units: 6. Aut (N. Pamir) Spr (N. Pamir)

Issues in International Political Economy
This graduate seminar course explores a series of issues central to the field of International Political Economy (IPE). While the exact focus is contingent on the contemporaneous disciplinary and policy agendas, as well as on the research interests of the participants, the course is centrally concerned with integrating theory and practice in a thorough and critical engagement with both IPE as an academic field of study, and various substantive aspects of the current world political economy. Credit units: 3 ECTS Credit Units: 6.

Introduction to Security Studies
This course offers an introduction to the study of security. It traces the evolution of security studies from the study of war and strategy to concerns with individual, societal and global security. Credit units: 3 ECTS Credit Units: 6.
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IR 4108  Diplomacy
The objective of this course is first to look into the history of professional diplomacy and its evolution to what it is today, how its protocols and rules became established over time; and second to simulate on the subtleties of the profession by way of concentrating on how diplomacy is conducted, tactics are applied and how cooperative decisions are made inside and outside institutional structures to gain an understanding of how states pursue their national interests, strategize and negotiate with one another in order to achieve mutually desired goals in a highly complex and, occasionally, conflicting world Credit units: 3 ECTS Credit Units: 6.

IR 4109  Issues for Turkey in Global Political Economy
This course is designed to introduce you to the issues important for the Turkish Republic in the global political economy. The course topics are grouped through a historical overview of the political economy of Turkey in relation to structural economic transformations and political developments in the globalization process. The course is divided into three sections. Section one introduces the relationship between politics and economics of Turkey between 1908 and 1960s. The issues covered in section one are state-led development and important substitution industrialization. Section two examines the economic crises and market liberalization period between 1970 and 1991. This issues covered in section two are chronic inflation, financial crises, privatization, export-led economic growth, and foreign debt. Section three will cover student presentations on a topic that are related to the twin processes of regionalization, specifically accession to the EU, and globalization in Turkey. Credit units: 3 ECTS Credit Units: 6. Spr (P. İpek)

IR 4114  Religion and IR Theories
The proposed course aims at increasing our understanding of how religion shapes international relations. The main topic of the course is the integration of religious subject matter into conceptual frameworks ranging from realism to liberalism and constructivism. The main question is how does religion translate into international politics. Hence, theoretical and empirical views are blended together. The subject matter covers whether religious actors can act as strategic actors, whether religions can have variable impact upon war and the likelihood of war in addition to analyses of international politics through the prism of religion and the interaction between secular and religious forces at global level. Credit units: 3 ECTS Credit Units: 6.

IR 4115  Turkey’s International Relations and the Middle East
This course is designed to orient the student about Turkey’s conduct of domestic and foreign policy with respect to the Middle East from both an historical and international relations perspective. The course will span from the end of WW I to contemporary times, with focus on mainly the Israel-Palestine conflict, change and continuity, what factors play a role in the shaping of relations in the Middle East and how vital national interests are safeguarded. Credit units: 3 ECTS Credit Units: 6. Spr (O. Gökçe)

IR 4116  International Logistics
The course provides all of the concepts of international logistics with a special focus on management of international trade operations. The philosophy of international logistics and important international trade elements will be thought within the light of logistics management approaches. It aims to perceive the students the international logistics management and implementations and documentations of international trade. Within this scope, it has been targeted to introduce various sub concepts collectively through the baseline of international logistics and global marketing along with the processes for the entities of foreign trade management to enable students to understand the effects of the international logistics on international economy and relations. The course begins with the general explanations of international supply chain management in line with international logistics infrastructure and continues with the main implementations of international trade. The course also includes international transportation and security issues along with the competitive support of international logistics within the context of theoretical knowledge. Credit units: 3 ECTS Credit Units: 6. Aut (I. H. Doğankaya) Spr (I. H. Doğankaya)

IR 4117  Global Governance
Against the background of ‘global governance’ having become central to both the practice and study of world politics, the aim of this course is three-fold: First, to develop an understanding of what global governance is all about; second, to identify the plurality of actors (state and non-state), processes and institutions involved in global governance across issue areas (security, political economy, human rights, the environment, etc.); and, third, to provide historical, theoretical and critical accounts of contemporary practices and aspirations of global governance. Credit units: 3 ECTS Credit Units: 6.

IR 4118  Turkey and the United States: Common Concerns and New ICT Instruments
This is an innovative course designed by Montclair State University and Bilkent University who will work together to forge a classroom-to-classroom partnership consisting of a semester-long course taught jointly by a professor in each country, focusing on common challenges Turkey and the U.S. face and building an understanding of the role information and communication technology (ICT). A portion of the course, including joint lectures, discussions, and assignments, will be conducted and completed collaboratively by students in both countries through the use of existing, under-utilized technologies (WEBEX, VTC, Skype, Googledocs, etc). Credit units: 3 ECTS Credit Units: 6.
IR 4120 Globalization, Development and the Environment in World Politics

Hurricanes in the Americas, droughts in Africa, excessive pollution in China and other weather extremes and environmental challenges undermine our current forms of social, economic and political organisation in the international system and their capacity to maintain nature as a basis for human life on this planet in the future. Continuing processes such as global warming, looming water scarcities and resource conflicts beg questions about the relationship between world politics and nature in general. Can development be redefined in more sustainable ways or do we need to rethink our notions of growth and progress more fundamentally? This course investigates these questions by looking at the actors and issues implicated in the relationship between globalisation and environmental change in world politics. It engages with competing theoretical perspectives about the drivers of change and its relationship to International Relations, Security and the Global Political Economy. The course will address issues such as climate change, carbon trade as well as resource and climate conflicts. It will further investigate the relationship between the environment and global trade, finance and production in the context of globalisation. Students will gain an understanding of the international structures, institutions and key actors in these debates from governments and international organisations to civil society and transnational corporations. They will learn about the ways in which their exercise of power and influence impacts on the environment. The course begins with an overview over the debates about the relationship between nature, society and world politics before looking at key actors and more specialized debates. The course will proceed by contextualizing these general debates within a variety of specific case studies from around the world and discuss the potential for more sustainable forms of international development. Credit units: 3 ECTS Credit Units: 6. Aut (C. M. Hoffmann) Spr (C. M. Hoffmann)

IR 4121 Intervention in International Relations

This course examines the theory and practice of intervention in international relations. We will begin with an analysis of the historical, conceptual and normative aspects of intervention. Our discussions will centre on the objectives, means and ends of intervention in situations of intra-state violence. We will also analyse the changes brought about by the end of the Cold War and the intensification of globalisation. We will then continue with more specific case studies and examine the circumstances and consequences of intervention. Investigation of these points will facilitate a deep understanding of the key themes and trends in the discourse and conduct of intervention as well as a critical discussion of the changes and continuities in arguments and practices over time. Credit units: 3 ECTS Credit Units: 6. Aut (S. Buldanoğlu Şahin)

IR 4123 Environment, Climate Change and Sustainable Development

The main objective of the course is to analyse the concept of sustainable development in theory and practice specifically focusing on the interactions between the public domain, business world and the world we live in. Past and present strategies for promoting sustainable development, resistance to the concept, and some alternative conceptions and theoretical underpinnings of the notion of sustainable development will set the basis of discussions while the implications of the concept in politics of various sectors such as energy, transport, environment, agriculture and natural resource management will be explored. In particular the course will help the students to establish a connection between economic development and environment in terms of sustainability in the long-term and will help them to understand why international economic competition has and will have a continuous and pressing sustainability dimension. Topics like fast growth, production patterns, and population change will be reformulated from an environmental point of view allowing for critical thinking for future. Credit units: 3 ECTS Credit Units: 6. Aut (G. Kara)

IR 4143 International and Public Policy Decision Making

This course aims at a gentle introduction of students into formal political theory. It is basically divided into two parts: individual and group decision making and game theory. The first part concentrates on individual preferences and choice including decision making under certainty and risk, cardinal utility, subjective probability, the calculus and paradoxes of voting, and misrepresentation of preferences. The second part includes two-person mixed-motive games, coalitional-form games, concepts of equilibrium such as iterated elimination of dominated strategies and backward induction, Nash and subgame-perfect Nash equilibrium. These analytical tools would serve as nuts and bolts for the student to go beyond mere description of political events, either domestic or international, and to construct their own explanations of puzzling choices at those levels. Credit units: 3 ECTS Credit Units: 6. Aut (S. Ş. Güner)

IR 4147 International Politics

This course offers an introduction to the study of international politics. It aims to first provide the historical, conceptual, and theoretical tools and lenses for analyzing behavioral and institutional patterns in the international system, and then to use these analytical means in exploring major international issues and events. Particular emphasis will be given to topics of international security, such as major power rivalries, the impact of globalization on security, and the management of low intensity conflicts. Government experts and practitioners will be invited as guest lectures for certain specific issues, such as international terrorism and regional geostrategy. Credit units: 3 ECTS Credit Units: 6. Spr (E. Aydınlı)

IR 4174 Turkey’s International Relations

This course will first examine the structural and historical determinants of Turkish foreign policy, with an emphasis on the foreign policy decision-making mechanism, as well as the sources of change and continuity. This will be
followed by first, a general exploration of the dynamics of the sub-system/region in which Turkey is located, and then more in-depth analyses of Turkey's particular relations with different geographical regions, such as Europe, Eurasia, the United States, and the Middle East. Some experts from the Turkish foreign ministry, as well as public figures with experience and expertise on relevant issues, will provide guest lectures. **Credit units: 3 ECTS**

**IR 4194 International Law and Organizations**
The comprehensive study will firstly analyze the normative side of international relations by describing and explaining the basic legal concepts of international law. At the later stage, it will focus on to the role of international organizations e.g. UN, Council of Europe, EU etc. to the contemporary world order under the effect of international law and politics. **Credit units: 3 ECTS**

**GRADUATE COURSES**

**IR 501 International Relations Theory**
The main traditions and currents of thought in international political theory. Early thinking about international relations. Major twentieth century approaches: idealist-realist debate; the power politics approach and its fundamental concepts such as balance of power, national interest, nationalism and imperialism. Behaviorism; systems analysis; structuration; interdependence and structure list theories. Decision-making and integration theories. **Credit units: 4 ECTS**

**IR 507 Foreign Policy of the United States**
The course examines the making and execution of US foreign policy in terms of the following factors: constitutional checks and balances; religious and ideological traditions; Presidential doctrines and "the lessons of history"; economic tools and cultural diplomacy; the role of special-interest lobbies; and area-specific concerns. **Credit units: 3 ECTS**

**IR 508 Academic Writing**
This course is designed to help students develop their ability to present their thoughts in academic language. Aims of the course include developing the students' skills in academic reading, paraphrasing, proper use of academic resources, and analytical expression in writing. By the end of this course, students would learn how to conduct literature review. **Credit units: 3 ECTS**

**IR 509 Pre-thesis Seminar**
Students who have taken IR 519 (Research Methods) must have a thesis proposal in hand. Students will finalize these thesis proposals under their supervisors' guidance. Later, the proposal will be presented to the Graduate Director for his/her approval. Students will not be allowed to register for courses in the following semester unless they fulfill this condition. **Credit units: None**

**IR 519 Research Methods**
This course aims to develop in students an appreciation of research design and methods and to prepare them for the thesis stage of the Master's program. Topics covered include principles and foundations of empirical research, design and structure of research, and data processing and analysis. It also provides an opportunity for students to begin to design their own research project in the light of the methods discussed. **Credit units: 4 ECTS**

**IR 531 Central Eastern Europe (1815-1945)**
Political and military history of Eastern Central Europe with an emphasis on wars and revolutions between 1815 and 1945. **Credit units: 3 ECTS**

**IR 537 The Russian Revolutions**
This course focuses on the analysis of the events leading up to the revolutions of 1905 and 1917 in Imperial Russia. Particular attention will be paid to the social, economic and political transformations of the pre-revolutionary period; the nature of the revolutionary and liberal opposition and the reactionary imperial administration. The main stages of the revolutions, changes in the nature of the Russian autocracy, the role of Duma in the imperial administration system, the nationalities problem, the formation of various political organizations and ultimately the overthrow of the autocracy will be examined in detail. A particular emphasis will be on the impact of the Russian revolutions on the subsequent global developments. **Credit units: 3 ECTS**

**IR 543 International and Public Policy Decision Making**
This course aims at a gentle introduction of students into formal political theory. It is basically divided into two parts: individual decision-making theory and game theory. The first part concentrates on individual preferences and choice including decision making under certain and risk, cardinal utility, subjective probability, the calculus and paradoxes of voting, and misrepresentation of preferences. The second part includes two-person mixed-motive games, coalitional-form games, concepts of equilibrium such as iterated elimination of dominated strategies and backward induction, Nash and subgame-perfect Nash equilibrium. These analytical tools would serve as nuts
and bolts for the student to go beyond mere description of political events, either domestic or international, and to construct their own explanations of puzzling choices at those levels. Credit units: 3 ECTS Credit Units: 6. Aut (S. Ş. Güner)

IR 547  International Politics
This course offers an introduction to the study of international politics. It aims to first provide the historical, conceptual, and theoretical tools and lenses for analyzing behavioral and institutional patterns in the international system, and then to use these analytical means in exploring major international issues and events. Particular emphasis will be given to topics of international security, such as major power rivalries, the impact of globalization on security, and the management of low intensity conflicts. Government experts and practitioners will be invited as guest lectures for certain specific issues, such as international terrorism and regional geostrategy. Credit units: 3 ECTS Credit Units: 6. Aut (S. Ş. Güner)

IR 571  Russia and Turkey
This course is a unique seminar on the history of Turco-Russian relations in the course of history. Although it covers the period from 1552 to present, its main focus would be 20th century Turco-Russian relations, given the similarities of the “modernization” projects of both countries. Credit units: 3 ECTS Credit Units: 6.

IR 572  European Union Integration, EU and OECD Economies
This course includes analyses of EU integration, globalization, regionalism and their relationship with nation states. Students will learn about the impact of EU integration on economic, political, cultural and social structures, the structure of the Turkish economy and the dynamics of its technological and socio-economic development. There will be a comparative analysis of EU and OECD economies and a transdisciplinary analysis of Turkey and the EU integration process. Credit units: 3 ECTS Credit Units: 6. Spr (O. Güvenen)

IR 574  Turkey's International Relations
This course will first examine the structural and historical determinants of Turkish foreign policy, with an emphasis on the foreign policy decision-making mechanism, as well as the sources of change and continuity. This will be followed by first, a general exploration of the dynamics of the sub-system/region in which Turkey is located, and then more in-depth analyses of Turkey's particular relations with different geographical regions, such as Europe, Eurasia, the United States, and the Middle East. Some experts from the Turkish foreign ministry, as well as public figures with experience and expertise on relevant issues, will provide guest lectures. Credit units: 3 ECTS Credit Units: 6. Aut (E. Aydınlı)

IR 578  History of the Cold War
The Cold War was an anomaly in history. Until then the World had never experienced bi-polarity, atomic foreign policies or third worldism. This course is designed as an inquiry into why this happened while assessing Cold War events. Topics include leadership profiles, crises, propaganda/intelligence activities and the Cold War culture throughout (1945-1991). Credit units: 3 ECTS Credit Units: 6.

IR 594  International Law and Organizations
International relations have legal and political sides. This comprehensive study will firstly analyze the normative side of international relations by describing and explaining the basic legal concepts of international law. At the later stage, it will focus on to the role of international organizations e.g. UN, Council of Europe, EU etc. to the contemporary world order under the effect of international law and politics. Credit units: 3 ECTS Credit Units: 6. Spr (Staff)

IR 599  Master's Thesis
Credit units: None ECTS Credit Units: 30. Aut (Staff) Spr (Staff)

IR 614  New Directions in Security Studies
This course is designed as a post-graduate level introduction to new directions in the study of security. Since the late 1980s, there has been remarkable change in the way security is conceived, studied and practiced. The academic field of Security Studies has been the subject of intense academic, intellectual and political debate during this period. The main aim of this course is to introduce students to main debates in Security Studies by tracing the development of Security Studies from its Cold War past to its post-Cold War present and opening up alternative ways of thinking about the future. Credit units: 3 ECTS Credit Units: 6.

IR 621  Current Debates in International Relations Theory
This course is designed as a post-graduate level introduction to current debates in International Relations theory. The content and nature of International Relations theory is by no means fixed. Indeed, International Relations theory has been the subject of intense academic, intellectual and political debate. The main aim of this course is to introduce students to some of the major debates in International Relations theory. The course also covers epistemological, ontological and methodological debates in IR. Specifically, the course aims to generate familiarity with the language of social research, the uses of theory and meanings of methodology in IR, ethical and political issues involved in the research process. Credit units: 4 ECTS Credit Units: 12, Prerequisite: IR 501. Spr (Staff)
IR 625  Advanced Diplomatic History
The course is designed to help prepare students for the diplomatic history qualifying examination by introducing them to current literature and comparative history. Credit units: 4 ECTS Credit Units: 12. Aut (N. B. Criss)

IR 629  Global Political Economy
This course is designed to explore questions relating to theory and process of increasingly globalizing international political economy. The purposes of the course are to expose students to major changes in the international political economics; to explore some of the theoretical debates over these changes; and, to examine the multitude of adjustment strategies states adopt to cope with changing structure of comparative advantage. Particular emphasis is placed upon the position of the middle-income developing countries (especially Turkey) within the global market structure. Credit units: 3 ECTS Credit Units: 6. Aut (O. Güvenen)

IR 649  The Soviet Union and The Second World War
As a consequence of the Second World War, the Soviet Union became one of the preeminent powers in the world, imposed its ideology and ethos upon an array of other countries, and parlayed its victory over fascism into a new claim of legitimacy. This seminar will explore the origins, course and character, and impact of the Second World War, with especial attention paid to the role of the USSR during the world's greatest conflict. The course will be organized topically, within a more or less chronological framework. Credit units: 3 ECTS Credit Units: 6.

IR 650  The Soviet Union Under Stalin (1924-1953)
This course covers the history of the Stalinist regime in detail. The political, economic, social, and cultural impacts of Stalinist policies (with a special emphasis on Soviet nationalities) before, during, and after the Second Worlds War will be examined thoroughly. The humanitarian cost caused by the Great Terror, the forceful collectivization, and deportations will be dwelt on in depth. A better understanding of Stalin's role in the making of the Soviet Empire is one of the main goals of this course. Credit units: 3 ECTS Credit Units: 6.

IR 662  EU Politics
This course is designed to provide graduate students with an advanced analysis of EU politics. After a general historical introduction, Part 1 discusses EU's institutional architecture. Part 2 dwells on an in-depth analysis of European integration theories. Part 3 explores various meanings of Europeanization before examining some of the most important EU policy areas, such as the single market. Part 4 concludes with a discussion of EU's recent enlargements and possible future scenarios. Credit units: 3 ECTS Credit Units: 6.

IR 665  The Diaspora Phenomenon
This course studies the theory and application of the diaspora phenomenon as an epistemological and ontological concept, which is a relatively infantile area of research in social sciences. The course will explore its historical evolution and provide a comparative account of the diasporas' country of origin and residence with reference to the ethnic, cultural, class, religious dimensions. Another aspect of comparison will be among different diasporic populations and the role of diasporic interest groups. the cases will not be limited to a geography or time interval, but special emphasis will be given on the dispersal to, and from, the former Soviet/Russian imperial space. Credit units: 3 ECTS Credit Units: 6.

IR 669  Turkey and Russia C1770-C1914
This course covers every aspect of Ottoman-Russian relations in “the long 19th century”. The common factors will be explored along with comparative westernization - “The Peter the Great and the Tanzimat”. The course takes in Russian Imperial expansion in the Caucasus and the Balkans and will cover the attempted partition of Eastern Anatolia in 1914. Credit units: 3 ECTS Credit Units: 6.

IR 670  Topics in the History of Communism 1847-1953
This course takes the outstanding moments and writers in the history of Communism. It starts of course with Marx and the Communist Manifesto, and proceeds through the construction of Capital and the International to a discussion of the emergence of socialism especially in France and Germany. It moves on to a consideration of Lenin’s adaptation of Marx to fit the world of Imperialism, and the position of large semi-capitalist states such as Russia (and later China). The success of the Bolsheviks in Russia alone is discussed, and then the emergence of the USSR as a super-power, especially with the Second World War. The course ends with the death of Stalin in 1953. Credit units: 3 ECTS Credit Units: 6. Spr (N. Stone)

IR 699  Ph.D. Dissertation
Credit units: None ECTS Credit Units: 30, Prerequisite: IR 519. Aut (Staff) Spr (Staff)

IR 5100  Introduction to Security Studies
This course offers an introduction to the study of security. It traces the evolution of security studies from the study of war and strategy to concerns with individual, societal and global security. Credit units: 3 ECTS Credit Units: 6.

IR 5104  Issues in Turkish Foreign Policy
This course is not a historical account of Turkish Foreign Policy. Nor does it consist of a chronological description of the events and issues. It is designed to acquaint the candidates with conceptual and institutional frameworks useful to explain and understand Turkish foreign and security policy and the essence of Turkey's diplomatic-
contradictions, and deficiencies of Turkey’s foreign policy. This means that the cause should underline not only the achievements, but also failures, contradictions, and deficiencies of Turkey’s foreign policy. Credit units: 3 ECTS Credit Units: 6. Aut (I. Özdamar)

IR 5105 Issues in International Political Economy
This graduate seminar course explores a series of issues central to the field of International Political Economy (IPE). While the exact focus is contingent on the contemporary disciplinary and policy agendas, as well as on the research interests of the participants, the course is centrally concerned with integrating theory and practice in a thorough and critical engagement with both IPE as an academic field of study, and various substantive aspects of the current world political economy. Credit units: 3 ECTS Credit Units: 6.

IR 5107 EU Public Policy
This course is designed to introduce students to the major policies of the EU. It starts with an overview of the functioning of the EU as a political system and policy process. The course then provides an understanding of the major EU policy areas, such as single market, monetary union, agriculture, regional policy, and common foreign and security policy. Credit units: 3 ECTS Credit Units: 6.

IR 5108 Diplomatic Negotiation Techniques
Negotiations can be classified into two main categories: bilateral and multilateral. The difference between these two categories lies in their context and framework rather than their form. The objective of this course is to show to the candidates the techniques used in both negotiating category, how constraining factors are eliminated, pitfalls are avoided etc. based on actual case studies and simulated workshops. Credit units: 3 ECTS Credit Units: 6.

IR 5109 The Politics of EU Enlargement
This course focuses on the politics of enlargement by the European Union. It examines successive rounds of enlargement and analyzes their evolution with reference to EU priorities as well as member states’ policies and intentions. The course combines theoretical insights with empirical analysis and offers a variety of perspectives from which students can assess for themselves the politics of enlargement. By the end of the course students should have become familiar with the EU, its politics and institutions as well as the theory and practice of EU enlargement. Credit units: 3 ECTS Credit Units: 6.

IR 5110 Topics in Modern European History 1870-1970
This course will take the most significant episodes of modern European (and in part world) history with a view to encouraging students’ interpretive abilities. The topics will be Imperialism around 1890, the “Great Depression” of the later nineteenth century and what it meant, the spread of parliamentary constitutionalism, the rise of Socialism and of a new Political Catholicism. Minority nationalism will be examined, and the rise of Fascism and Communism. The course ends with the attempt to create a new Europe after 1947, and the involvement of the USA. Credit units: 3 ECTS Credit Units: 6. Aut (N. Stone)

IR 5112 Conflicts in the Middle East
This course offers an advanced conceptual and empirical analysis of contemporary Middle East politics through an exploration of its main conflicts and developments since the end of World War II. From the Palestinian question, to peace and war in the region, and the “Arab Spring”, students will engage in critical evaluation of the roots of key Middle East conflicts, the role that social movements and media play in the regions’ trends and developments, and the involvement of superpower rivalry and impact on international politics. The course aims to provide students with an advanced understanding of key Middle East events and theories, and enhances their skill in interpreting political developments in the region. The course enables students to critically evaluate leading scholarship in the field of Middle East politics and international relations, and encourages students to develop their own positions on contemporary issues of the Middle East based on critical assessment of existing literature and empirical evidence. Credit units: 3 ECTS Credit Units: 6. Aut (N. Shoughry)

IR 5114 Religion and IR Theories
The proposed course aims at increasing our understanding of how religion shapes international relations. The main topic of the course is the integration of religious subject matter into conceptual frameworks ranging from realism to liberalism and constructivism. The main question is how does religion translate into international politics. Hence, theoretical and empirical views are blended together. The subject matter covers whether religious actors can act as strategic actors, whether religions can have variable impact upon war and the likelihood of war in addition to analyses of international politics through the prism of religion and the interaction between secular and religious forces at global level. Credit units: 3 ECTS Credit Units: 6.

MIAPP 501 Term Project
This course has an accompanying course. Students taking this accompanying course are first expected to agree on a topic with the professor of that course and then to write a 5,000 words long term paper on that particular topic. Credit units: None ECTS Credit Units: None. Aut (Staff)
MIAPP 516  **International Logistics**
The course provides all of the concepts of international logistics with a special focus on management of international trade operations. The philosophy of international logistics and important international trade elements will be thought within the light of logistics management approaches. It aims to perceive the students the international logistics management and implementations and documentations of international trade. Within this scope, it has been targeted to introduce various sub concepts collectively through the baseline of international logistics and global marketing along with the processes for the entities of foreign trade management to enable students to understand the effects of the international logistics on international economy and relations. The course begins with the general explanations of international supply chain management in line with international logistics infrastructure and continues with the main implementations of international trade. The course also includes international transportation and security issues along with the competitive support of international logistics within the context of theoretical knowledge.  
*Credit units: 3 ECTS Credit Units: 6. Aut (İ. H. Doğankaya) Spr (İ. H. Doğankaya)*

MIAPP 555  **Public Policy Making in the European Union**
This course is about policy processes in the EU. It is designed to equip students with knowledge, skills and research experience to analyze the challenges in the EU decision-making process. During the lectures, we will try to understand the policy making process in the EU by touching on the most complicated policy areas. Specific focus will be put on the current financial crisis and contemporary debates on the future integration of the EU. At the end of this course, students should be familiar with the complex EU policy making and policy implementing processes with a capacity to examine supranational policy problems and controversies, as well as to develop solutions in the field. The participants of the course will be able to analyze the political environment of European public policy and form effective strategies.  
*Credit units: 3 ECTS Credit Units: 6. Aut (D. Altınbaş) Spr (D. Altınbaş)*
DEPARTMENT OF POLITICAL SCIENCE AND PUBLIC ADMINISTRATION


Political science is one of the oldest social science disciplines. It examines how people in one society and in societies organized into states live together and resolve or fail to resolve their conflicts. Politics is the art of influencing others as well as arriving at consensus. It is a widespread phenomenon that one encounters at all levels of society (family, school, government, and the like) as well as between states.

The discipline of political science which studies systematically (that is, shows and accounts for) the recurring patterns of events in politics, is divided into five subdisciplines: political theory, comparative politics, international relations, national politics and public administration. The undergraduate and graduate programs offered by the Department aim to provide a balanced education and training in these five subdisciplines. Through elective courses students can, to a certain degree, specialize in certain areas.

UNDERGRADUATE PROGRAM

The Department offers an education in political science with opportunities for a broad and balanced undergraduate study. Students pursue programs which, in addition to providing a firm grounding in the core subjects of the discipline, allow students to take courses in law, economics, management, and international relations as well as in computer sciences and humanities. Departmental courses are divided in a balanced fashion between the fields of political theory, comparative politics, and Turkish government and politics, and cultural studies.

The Department aims at providing the students with an education that would enhance their understanding of social artifacts. In addition to giving the basic requirements of a degree in political science, the program emphasizes the utility of learning social and political roles. The goal for a study in the Political Science major is to maximize students’ capacity to analyze and interpret the significance and dynamics of political events and governmental processes. The purpose is not simply to reveal the significance of political events and issues. It is to equip the students with the knowledge in coping with political phenomena and problems. The aim is political education “in depth” for those students who have an interest in politics whatever their professional goals and eventual occupations are.

UNDERGRADUATE CURRICULUM

FIRST YEAR

<table>
<thead>
<tr>
<th>Autumn Semester</th>
<th>Credits / ECTS Credits</th>
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<tbody>
<tr>
<td>CS 121 Introduction to Computing for Social Sciences</td>
<td>3 / 6</td>
</tr>
<tr>
<td>ECON 107 Principles of Microeconomics</td>
<td>3 / 6</td>
</tr>
<tr>
<td>ENG 101 English and Composition I</td>
<td>3 / 6</td>
</tr>
<tr>
<td>GE 100 Orientation</td>
<td>1 / 1</td>
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<tr>
<td>HCIV 101 History of Civilization I</td>
<td>3 / 6</td>
</tr>
<tr>
<td>POLS 101 Introduction to Political Science I</td>
<td>3 / 6</td>
</tr>
<tr>
<td>TURK 101 Turkish I</td>
<td>2 / 1</td>
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<thead>
<tr>
<th>Spring Semester</th>
<th>Credits / ECTS Credits</th>
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<tbody>
<tr>
<td>ECON 108 Principles of Macroeconomics</td>
<td>3 / 6</td>
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<tr>
<td>ENG 102 English and Composition II</td>
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<td>Course Code</td>
<td>Course Title</td>
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<tr>
<td>HCIV 102</td>
<td>History of Civilization II</td>
</tr>
<tr>
<td>POLS 104</td>
<td>Introduction to Political Science II</td>
</tr>
<tr>
<td>PSYC 102</td>
<td>Introduction to Social Psychology</td>
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<td>TURK 102</td>
<td>Turkish II</td>
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**SECOND YEAR**

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<tbody>
<tr>
<td>GE 250</td>
<td>Collegiate Activities Program I</td>
</tr>
<tr>
<td>HIST 200</td>
<td>History of Turkey</td>
</tr>
<tr>
<td>IR 101</td>
<td>Introduction to World Politics</td>
</tr>
<tr>
<td>LAW 210</td>
<td>Basic Concepts of Law</td>
</tr>
<tr>
<td>PHIL 243</td>
<td>Social and Political Philosophy I</td>
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<tr>
<td>SOC 101</td>
<td>Introduction to Sociology</td>
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<tbody>
<tr>
<td>GE 251</td>
<td>Collegiate Activities Program II</td>
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<tr>
<td>LAW 214</td>
<td>Introduction to Turkish Public Law</td>
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<tr>
<td>MATH 264</td>
<td>Statistics for Social Sciences</td>
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<tr>
<td>PHIL 244</td>
<td>Social and Political Philosophy II</td>
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<td>POLS 201</td>
<td>Fundamentals of Social Research</td>
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**THIRD YEAR**

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<tr>
<th>Autumn Semester</th>
<th>Credits / ECTS Credits</th>
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<tbody>
<tr>
<td>LAW 103</td>
<td>Constitutional Law I</td>
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<tr>
<td>LAW 205</td>
<td>Administrative Law I</td>
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<tr>
<td>POLS 303</td>
<td>Comparative Politics I</td>
</tr>
<tr>
<td>POLS 305</td>
<td>Turkish Political Development</td>
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<tbody>
<tr>
<td>IR 305</td>
<td>International Organizations</td>
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<tr>
<td>POLS 304</td>
<td>Comparative Politics II</td>
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<td>POLS 306</td>
<td>Contemporary Turkish Politics</td>
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<td>Unrestricted I- Elective</td>
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**FOURTH YEAR**

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<tr>
<th>Autumn Semester</th>
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<tr>
<td>POLS 399</td>
<td>Summer Training</td>
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<td>Transdisciplinary Senior Project</td>
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<td>Unrestricted I- Elective</td>
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<td>Unrestricted II- Elective</td>
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<tr>
<th>Spring Semester</th>
<th>Credits / ECTS Credits</th>
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<tbody>
<tr>
<td>POLS 465</td>
<td>Governance and Public Policy</td>
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<td>Unrestricted I- Electives (3)</td>
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<td>Unrestricted II- Elective</td>
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**RESTRICTED ELECTIVES**

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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>POLS 204</td>
<td>Political Sociology</td>
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<tr>
<td>POLS 225</td>
<td>Culture and Change in Turkey</td>
<td>3</td>
</tr>
<tr>
<td>POLS 229</td>
<td>Turkish Political History I</td>
<td>3</td>
</tr>
<tr>
<td>POLS 230</td>
<td>Turkish Political History II</td>
<td>3</td>
</tr>
<tr>
<td>POLS 231</td>
<td>Introduction to Law</td>
<td>3</td>
</tr>
<tr>
<td>POLS 232</td>
<td>Turkish Public Law</td>
<td>3</td>
</tr>
<tr>
<td>POLS 234</td>
<td>Religion and Politics in the Arab World</td>
<td>3</td>
</tr>
<tr>
<td>POLS 235</td>
<td>Political Psychology</td>
<td>3</td>
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<tr>
<td>POLS 236</td>
<td>Introduction to Political Anthropology</td>
<td>3</td>
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<tr>
<td>POLS 237</td>
<td>The Contemporary Middle East</td>
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</table>
POLS 494  The Turkish Politics of Modernization and the Religious Debate  .......... 3 / 6
POLS 495  International Political Economy  .............................................. 3 / 6
POLS 497  Local and Global in Cities ....................................................... 3 / 6
POLS 501  Seminar in Turkish Politics ...................................................... 3 / 6
POLS 602  Seminar in Comparative Politics ............................................... 3 / 6
POLS 603  Advanced Academic English ..................................................... 3 / 6
POLS 604  Democratization Process in Turkey ........................................... 3 / 6
POLS 605  The Public Sphere ................................................................. 3 / 6
POLS 606  Seminar in Political Theory ...................................................... 3 / 6
POLS 607  Configuration of Political Theory Today ..................................... 3 / 6
POLS 608  Politics, Culture, Nation and Gender ......................................... 3 / 6
POLS 609  Issues in Urban Studies ........................................................... 3 / 8
POLS 610  Research Methods ................................................................. 3 / 6
POLS 611  Political Theory : An Overview ............................................... 3 / 8
POLS 612  Seminar in Social and Cultural Studies: .................................... 3 / 8
POLS 614  Politics of Nationalism and Ethnicity ........................................ 3 / 8
POLS 616  Political Cultures in the Middle East ...................................... 3 / 7
POLS 618  Hegel’s Philosophy of Right ...................................................... 3 / 7
POLS 627  Cultural Diversity Cosmopolitanism and Europe .......................... 3 / 7
POLS 628  Social and Spatial Aspects of the Periphery .............................. 3 / 6
POLS 629  Turkey in Its Muslim Environment ........................................... 3 / 6
POLS 630  Comparative Political Studies and Turkey ................................... 3 / 6
POLS 631  Foreign Policy Analysis ........................................................... 3 / 6
POLS 633  Seminar on the European Union .............................................. 3 / 6
POLS 634  European Union Politics ........................................................... 3 / 6
POLS 635  Politics of Turkish Modernization ........................................... 3 / 6
POLS 636  Nationalism and Politics ........................................................... 3 / 6
POLS 637  Power and State ..................................................................... 3 / 6
POLS 638  Political Theory in a Time of Terror .......................................... 3 / 6
POLS 639  The Ecology of Social Relations and Cultural Processes ............... 3 / 6
POLS 640  Issues in Political Psychology .................................................. 3 / 6
POLS 641  The Ultimate Sources of Politics .............................................. 3 / 6
POLS 642  Contemporary Issues in Human Rights ..................................... 3 / 6
POLS 643  Issues in Political Theory .......................................................... 3 / 6
POLS 645  Voting Behavior and Political Parties ....................................... 3 / 6
POLS 647  Social Scientific Inquiry and Qualitative Methods ........................ 3 / 6

Language courses satisfy elective requirements for the third and fourth year electives, but only one language course per semester is allowed.

MINOR PROGRAM

Politics is essentially a decision-making process which distributes status, power and resources at all levels of human society, ranging from the family to the international system. Being one of the oldest social science disciplines, political science examines perennial questions such as how those decisions are made, who makes them, or who benefits from them. The Political Science Department at Bilkent University focuses specifically on four sub-fields: comparative politics, Turkish politics, political theory and cultural studies.

The aim of the Minor Program in Political Science is to acquaint Bilkent students from any background with the academic study of politics. Students enrolled in any one of the Bilkent faculties might apply, provided that they fulfill the application criteria. The minor program is composed of six courses in total and four of those are compulsory. Depending on their major program, students are expected to take either one of Introduction to Political Science I or Social Transformation in Turkey. Other compulsory courses are Comparative Politics I, Turkish Political Development and Contemporary Turkish Politics. Minor program students are allowed to pick and choose any two Political Science courses as electives and they would be well-advised to concentrate in one of the four sub-fields.

Prerequisite Courses: None
CURRICULUM

Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits / ECTS Credits</th>
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<tbody>
<tr>
<td>POLS 303</td>
<td>Comparative Politics I</td>
</tr>
<tr>
<td>POLS 305</td>
<td>Turkish Political Development</td>
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<tr>
<td>POLS 306</td>
<td>Contemporary Turkish Politics</td>
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<tr>
<td>Electives (2)</td>
<td>6 / 12</td>
</tr>
<tr>
<td>POLS 101 or POLS 104</td>
<td>3 / 6</td>
</tr>
</tbody>
</table>

GRADUATE PROGRAM

Doctor of Philosophy in Political Science

The Ph.D. Program in Political Science is designed to provide Ph.D. candidates with theoretical background, analytical abilities and empirical research skills in accordance with international academic standards in four major fields (Turkish Politics, Comparative Politics, Political Theory, Social Theory and Cultural Studies). Students are admitted to the program by written application and an evaluation by the Graduate Admissions Committee of the Department. Also refer to the “Graduate Admissions” section in the introduction of this catalogue for the general graduate admission requirements.

A candidate for the doctorate degree must:

1. Successfully complete the core curriculum for Ph.D. Degree in Political Science. The courses in the core curriculum for the Ph.D. degree in Political Science include Seminar in Turkish Politics (POLS 601), Seminar in Comparative Politics (POLS 602), Seminar in Political Theory (POLS 606), Seminar in Social and Cultural Studies (POLS 612), Research Methods (POLS 610), Advanced Academic English (POLS 603), Academic Practices (GE 690) and the Ph.D. Dissertation (POLS 699).

2. Successfully complete the course requirements for the Ph.D. degree by earning at least 24 credits (if admitted with a Master’s degree) and 48 credits (if admitted without a Master’s degree) in total. Those required to complete 24 credits will take two elective courses from among the courses listed as "Graduate Electives" with at least 3 credits. Those required to complete 48 credits will take ten elective courses (eight from among the POLS 600 or higher level courses and two from among "Graduate Electives" with at least 3 credits.)

3. Show competence in the written and oral comprehensive examinations within the first three semesters after being admitted to the Ph.D. program (if admitted with a Master’s degree) within five semesters of being admitted to the program (if admitted without a Master’s degree).

4. Submit a detailed Ph.D. dissertation proposal within six months after successfully passing their comprehensive examinations.

5. Submit and successfully defend a PhD. dissertation that represents an original contribution to knowledge in the field.

CURRICULUM OF Ph.D. PROGRAM

Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits / ECTS Credits</th>
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<tbody>
<tr>
<td>GE 690</td>
<td>Academic Practices</td>
</tr>
<tr>
<td>POLS 601</td>
<td>Seminar in Turkish Politics</td>
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<tr>
<td>POLS 602</td>
<td>Seminar in Comparative Politics</td>
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<td>POLS 603</td>
<td>Advanced Academic English</td>
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<tr>
<td>POLS 606</td>
<td>Seminar in Political Theory</td>
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<td>POLS 610</td>
<td>Research Methods</td>
</tr>
<tr>
<td>POLS 612</td>
<td>Seminar in Social and Cultural Studies</td>
</tr>
</tbody>
</table>
POLS 699 Ph.D. Dissertation ................................................................. 24
Electives (2) .............................................................................. 6

The students will register for Ph.D. Dissertation (POLS 699) once the coursework is completed until completing the requirements of the program.

COURSE DESCRIPTIONS

UNDERGRADUATE COURSES

POLS 101 Introduction to Political Science I
This course explains the nature of political science and its basic concepts including power, legitimacy, authority and choice. The development of modern nation-state; fundamental of the classical and contemporary ideologies; policy-making role of the state; relationship between the state and the citizen; democratic and non-democratic governments and constitutional design of government are also covered. Credit units: 3 ECTS Credit Units: 6.
Aut (D. Ersoy, B. Helvacıoğlu, B. İnce, J. M. Salt, N. Şenses, Z. Tandoğan) Spr (B. İnce)

POLS 104 Introduction to Political Science II
This second part of the course explores the major political institutions and processes. Elections and participation; the role of political parties and interest groups in a democratic polity; parliamentary structures; presidential and parliamentary systems of government; bureaucracy; courts and international organizations are analyzed. Credit units: 3 ECTS Credit Units: 6.
Aut (Z. Tandoğan) Spr (J. M. Salt)

POLS 201 Fundamentals of Social Research
Introduction to philosophical bases and goals of social research. The logic underlying a scientific analysis. The problems and considerations arising in the selection and formulation of a research question. Credit units: 3 ECTS Credit Units: 6.
Aut (Ç. E. Çuhadar Gürkaynak, Z. Tandoğan) Spr (Ç. E. Çuhadar Gürkaynak, Z. Tandoğan)

POLS 204 Political Sociology
Development of the modern state and society. Power structure of society. Functions and roles of political institutions. Political processes such as participation and political socialization; political culture. Credit units: 3 ECTS Credit Units: 6.

POLS 229 Turkish Political History I
This course is a survey of Ottoman/Turkish political history from its late Ottoman roots, until the foundation of the Republic of Turkey in 1923. The course aims not only to provide students with an analysis of late Ottoman/Turkish socio-political concepts, events and institutions (with an emphasis on continuity and change) but also to teach the necessary analytical tools required to assess historical phenomena. Credit units: 3 ECTS Credit Units: 6.
Aut (B. Burçak)

POLS 230 Turkish Political History II
This course is a survey of Turkish political history between 1923-1990, which focuses on the main themes, people, events, and institutions in modern Turkish history aiming not only to provide students with the necessary information regarding Turkish politics but also with the analytical tools needed to assess historical phenomena.
Credit units: 3 ECTS Credit Units: 6.
Spr (B. Burçak)

POLS 235 Political Psychology
Political Psychology explores the area that lies between politics and psychology. This course is an introduction to the psychological study of political life. It is an inter disciplinary course which will draw upon from the literatures of political science, international relations, and psychology (especially social psychology). During the course, we will explore different perspectives in psychology and will apply those psychological theories to particular domestic and international political problems including foreign policy decision making, leadership, inter-group conflict and cooperation, identity, authoritarianism, social dominance orientation, the formation of belief systems, political socialization, and collective violence and mass hysteria. Credit units: 3 ECTS Credit Units: 6.

POLS 236 Introduction to Political Anthropology
This course a comprehensive overview of political anthropology, including its history, its major research findings, and its theoretical concerns both past and present. It also covers such topics as preindustrial political systems, religion and ritual in politics, the power of the people, the politics of identity, and the transition from modernism to postmodernism. Credit units: 3 ECTS Credit Units: 6.

POLS 237 The Contemporary Middle East
This is a survey course designed to cover contemporary developments in the Middle East, including Israel/Palestine and the ‘peace process’ since 1993; the invasions of Iraq in 1991 and 2003 and their consequences, including constitutional developments and the formation of regional governments; nuclear technology, nuclear weapons and Iran's nuclear program; and ‘western’ policies towards the region against a background
of shifting global economic and political power. Turkey's interests and involvement in all these issues will be continuing theme. Credit units: 3 ECTS Credit Units: 6. Aut (J. M. Salt)

POLS 238 Negotiation and Mediation in Politics
This course focuses on both the theory and practice of negotiation and mediation concerning legal and political conflicts. The course covers a wide range of issues concerning negotiations including the different theories of bargaining, different outcomes of negotiations, processes of negotiation, psychological dynamics affecting negotiations, effective communication strategies, the role of language, culture, and power in negotiations, and the role of third parties in negotiations. An important part of the class is devoted to teaching the applied negotiation and mediation skills to students. Towards this end the students will carry out negotiation simulations and role plays related to various legal and political negotiations. In addition to the role plays and simulations, the course will also discuss several negotiation cases in detail including the negotiations over the Turkish Constitution, Cyprus, and Jerusalem. Credit units: 3 ECTS Credit Units: 6. Spr (Č. E. Çakal)

POLS 239 Internet and Society
This course aims to provide a sociological understanding of how the internet, as a new communication and information technology, is changing our lives and society. We will try to understand which new opportunities and risks, and what new forms of co-operation, conflict and competition emerge as a result of the increasing utilization of the Internet. Throughout the course we will survey existing research on a number of specific topics, including: the relationship between online and offline communities; Social Network Sites; privacy issues and electronic surveillance; Internet broadcasting and cyberculture; blogs, information sharing and e-Participation; social movements, identity politics and the Internet; e-Government and governance of the Internet. Credit units: 3 ECTS Credit Units: 6.

POLS 240 Social Transformation in Turkey
This course aims at providing an insight into the social and cultural aspects of social transformation in Turkey. The transformation of spaces, divisions of labour, social stratification, life-styles and cultural values are explained through sociological and anthropological studies carried out in Turkey since the 1960s. Credit units: 3 ECTS Credit Units: 6. Spr (N. Fehim Kennedy)

POLS 303 Comparative Politics I
Historical and contemporary political developments in the USA, UK, France, and Germany. Credit units: 3 ECTS Credit Units: 6. Aut (H. T. Bölükbaşı, S. Özcüremüz Bölükbaşı) Spr (Staff)

POLS 304 Comparative Politics II
Historical and contemporary political developments in Russia and her neighboring countries (the Commonwealth of Independent States), Eastern Europe, and the Peoples Republic of China. Credit units: 3 ECTS Credit Units: 6. Aut (M. Uğur Çınar) Spr (H. T. Bölükbaşı, S. Özcüremüz Bölükbaşı)

POLS 305 Turkish Political Development
The development of the political systems from the Ottoman period to the present with special emphasis on problems of and prospects for democracy. Credit units: 3 ECTS Credit Units: 6. Aut (I. İ. Aytekin, Z. Sarıgil) Spr (I. İ. Aytekin)

POLS 306 Contemporary Turkish Politics
State, Politics and society in contemporary Turkey, from a theoretical perspective with special emphasis on problems of and prospects for democracy. Credit units: 3 ECTS Credit Units: 6. Aut (M. Heper, Z. Sarıgil)

POLS 309 Turkish Political Thought I
This course is a survey of political/intellectual trends in Ottoman-Turkish history. The course focuses on the late Ottoman period until the establishment of the Turkish Republic, focusing on an analysis of political/intellectual trends and their main ideologues with an emphasis on continuity and change through careful analysis of not only secondary but also primary sources. Credit units: 3 ECTS Credit Units: 6. Aut (B. Burçak)

POLS 312 Health, Society and Politics
Sociology, history and politics of health care. Social response to disease (including epidemics); the development and organization of the medical profession (hospitals, public health and health insurance); politics of health policy in comparative perspective. Credit units: 3 ECTS Credit Units: 6.

POLS 323 Political Anthropology
The course is concerned with the social and cultural phenomena related to how and why power and authority operate in human societies. Some of the topics covered are: types of preindustrial political systems; the evolution of the state; religion in politics; political succession; women and power; political symbolism and the influence of macrolevel politics on local authorities and politics. Credit units: 3 ECTS Credit Units: 6. Spr (D. Just)

POLS 324 Research Methods
Quantitative and qualitative research methods. Formulating research problems and selecting appropriate research designs. General problems of measurement, data collection techniques, analysis and interpretation of social science data. Credit units: 3 ECTS Credit Units: 6. Spr (A. Just, Z. Tandoğan)
POLS 329  Politics in Russia and the Commonwealth of Independent States
This course analyzes the political, economic and social developments that took place in the countries, which were once part of the Soviet Union, since the collapse of communism in 1991. The main focus Russia, but the course also compares and contrasts the recent developments in other paths taken by Latvia, Lithuania and Estonia. Credit units: 3 ECTS Credit Units: 6.

POLS 331  State and Society in Israel
The aim of this course is to acquaint students with the basic characteristics of the Israeli society and political system. The course covers the evolution of a self-governing Jewish community from its origins in Ottoman Palestine until the present day. It addresses issues such as the governmental system, political parties, foreign policy, military, nationalism, religion, citizenship and ethnicity from a comparative perspective. Credit units: 3 ECTS Credit Units: 6. Spr (I. İ. Aytürk)

POLS 334  Turkish Political Thought II
This course is a survey of political/intellectual trends in modern Turkish History between 1923 and 1990 aiming not only to provide students with the necessary information concerning Turkish political thought but also at teaching them how to analyze discourse through a careful analysis of both primary and secondary sources. Credit units: 3 ECTS Credit Units: 6. Spr (B. Burçak)

POLS 338  Cosmopolis: From the Roman to the Ottoman and British Empires
This course will offer an unusual conspectus of political thought in the last two thousand years. Most political theory has considered the nature of the polis or the nature of the modern state: there are very few great works, with perhaps the exception of Augustine’s City of God, which deal with the problem of the nature of empire, or cosmopolis, that is, a universal city rather than a particular city. The course shall involve a study of the understandings of empire held by those who reflected on the Roman, Byzantine, Holy Roman, Ottoman, Austrian and British Empires. It will include not only writers who lived within empires, but those from the more obvious western canon of political thought who reflected on empires from without. Not only political thought will be studied, but also some literature and history. The question will be why so little theory was written about empires. Credit units: 3 ECTS Credit Units: 6. Spr (J. J. Alexander)

POLS 339  Policy, the State and the Public
This course intends to explore the political aspects of public policy and to develop a critical perspective on the public policy process and stakeholders. The course divides into three parts: (1) Concepts, theories, methodologies, history and development (2) The policy game, rules, venues and arenas in which it is played, and roles of governmental stakeholder/players, and (3) participatory policy. Credit units: 3 ECTS Credit Units: 6. Spr (N. Fehim Kennedy)

POLS 342  Contemporary Political Theory
This course is an overview of contemporary political theory, focusing on the most frequently debated theorists. We will start with the discussion of the legacy of key political figures in the late twentieth century (Carl Schmitt, Jurgen Habermas, John Rawls, Theodor Adorno, Michel Foucault and Noam Chomsky), and will continue with the most recent contributions to political theory by Michael Hardt, Antonio Negri, Slavoj Zizek, Ernesto Laclau, Alain Badiou, Jacques Ranciere and Fredric Jameson. Credit units: 3 ECTS Credit Units: 6.

POLS 343  Social Theory: Past and Present
A select survey of classical and contemporary social theories. The aim of the course is to enable students to understand the changes in social theory as a response to transformations in modern societies, and to develop an awareness of diverse theoretical perspectives that emerged since late nineteenth century. After a review of classical macro and micro theories, the focus will be on contemporary perspectives such as systems theory, critical theory, feminism, structuralism and post-structuralism. Credit units: 3 ECTS Credit Units: 6. Aut (E. M. Özdalga)

POLS 344  Turkish Nationalism: Politics and Ideology
This course aims to examine the emergence of Turkish nationalism as a political ideology in the late nineteenth century and its spread and influence in the Republic of Turkey. On the one hand, the emphasis is put on the history of ideas: the environment in which Turkish nationalism was born and flourished, its influence in the early republican era, and its evolution after are covered in detail. On the other hand, another goal of this course is to highlight the political institutionalization of Turkish nationalism. The way in which the Republic adopted nationalism as the core ideology of the nascent state and how various branches of the nationalist movement had found a political expression, participating in politics in modern Turkey, constitute the other central questions to be dealt with. Finally, prospects for future are to be discussed, taking into account the nationalist responses to Turkey’s domestic and global interests, commitments, and problems. New voices among Turkish nationalist, providing answers to current issues and introducing theoretical openings will receive attention, as well. Credit units: 3 ECTS Credit Units: 6.
POLS 347  Liberty and Liberalism
This is a course about one particular political ideal—liberty—and the attempt in modernity to make it the foundation of politics—in the form of liberalism. There is an engagement with historical views of liberty, with classical liberalism since the early nineteenth century, and criticism which have been made of liberalism since that time. In concern, along an ideal with an ideology, the course intends to make clearer the problems of attempting to establish political ideals in political parties. Credit units: 3 ECTS Credit Units: 6.

POLS 353  Foundations of Modern Political Theory
This course historically focuses on Renaissance and Reformation period and particularly analyzes Republicanism, humanism, Lutheranism, constitutionalism, and absolutism. It addresses such questions as how and why one defends liberty, under what circumstances the right to resist is justified, what are different responses to constitutionalism, and what is state sovereignty with and without absolutism. Credit units: 3 ECTS Credit Units: 6. Aut (B. Helvacıoğlu)

POLS 355  Issues of Urbanization
Rural-to-urban migration, accompanied by squatter settlements in the physical realm, has been transforming many Asian, African and Latin American societies since the 1950s. This course investigates the social and political outcomes of “rapid urbanization” with a focus on squatter settlements and their residents. It covers theories that seek to explain social and economic transformation of “modernizing” societies and their urban development. It attempts to develop a critical approach to the “integration” question of migrants in their new environment, and while so doing, it focuses mainly on the Turkish case. Gender, ethnicity, religion and regional identity are addressed. Credit units: 3 ECTS Credit Units: 6. Aut (F. T. Erman)

POLS 357  Ethics and Morality in Daily Life
Ethics and morality are usually either confined to realm of religion or taught, learned and discussed in the area of philosophy. However, in today’s world, people are faced with ethical dilemmas and moral issues in many areas of daily life. The lines between “good” and “evil”, and between “right” and “wrong” are becoming increasingly blurred, yet individuals are generally left without a guide for solving these issues. There is therefore a need to discuss such issues as part of the education of young people in every field. This course aims to equip students who are not students of philosophy with some basic philosophical approaches to ethics and morality in simplified form, and to encourage them to apply these approaches to some practical issues in politics, science, law and other aspects of social life. Credit units: 3 ECTS Credit Units: 6. Aut (N. Fehim Kennedy)

POLS 399  Summer Training
Course description: This course refers to the internship course which will need to be satisfied with an internship to be conducted during the summer of the end of the third year in the program. The course will be a non-credit (0 credit) course to be marked as S or U. Credit units: None ECTS Credit Units: None. Aut (Staff)

POLS 404  Political Parties and Interest Groups
Analysis of origins, functions and organizational characteristics of political parties and interest groups in different political systems. Pluralism, patron-client relationship and corporatism. Credit units: 3 ECTS Credit Units: 6. Aut (Ş. Yardımcı Geyikçi)

POLS 411  Gender and Politics
The aim of the course is to gain a deeper understanding of the ways in which gender and gender inequality shape institutions, policies, and political processes, as well as the way states affect gender relations, the political construction of gender, and political mobilization based on gender. Classical and contemporary views on gender and politics will be examined with a focus on three topics within the broad area of the relationship of gender and politics in some depths: women in politics; state social policy, and gender and ideology. Credit units: 3 ECTS Credit Units: 6. Aut (N. Fehim Kennedy)

POLS 420  Theory and Modern Society
Elaborate examination of the efforts to address, evaluate, and extend questions posed by founding fathers of social theory (Durkheim, Marx, Weber, Nietzsche) with particular attention to current positions in social and political theory within the dynamic axis of modernity vs. post-modernity. This seminar-type course develops upon these debates with a special emphasis on social and intellectual contexts, conceptual frameworks and methods, and contributions to modern society and its theorizing. Works: Darwin, Spencer, Parsons, Dahrendorf, Saussure, Habermas, and Foucault. Credit units: 3 ECTS Credit Units: 6. Spr (M. N. Karakayaı)

POLS 421  Issues in Modern Political Thought
The object of this course is to critically analyze the project of modernity through the prisms of democracy, industrialization, science and cultural representation. The first half of the course focuses on the idea of progress in modern thought and politics. In the second half, the main question under investigation is the political impact of the project of modernity on different social forces. Credit units: 3 ECTS Credit Units: 6. Spr (J. J. Alexander)

POLS 426  Civil Society in Turkey
The course aims at studying the development of civil society in Turkey. Firstly, it focuses on the nation of civil society at the global level from a comparative and historical perspective, and then shifts the focus to the national
level. Central to this is the distinction between civil society and state. The course introduces students to the characteristics and dynamics of present-day civil society in Turkey, and therefore deals with a number of case studies. Accordingly, media, labor unions, non-governmental organizations (associations, foundations), political parties, interest groups in contemporary Turkey are among the subjects of this course. Credit units: 3 ECTS Credit Units: 6. Spr (F. T. Erman)

POLS 431  Politics and Society in Turkey
This course explores the debates and controversies over modernization, westernization, nationalism and secularism as they become the main themes of the constitutive norms of the modern Turkish Republic. After briefly tracing the historical developments around these themes since the founding of the Republic, the course examines different dimensions of Turkish nationalism and its aspirations for a West-oriented modernity in various contexts of politics and daily life such as the use of public spaces, urban planning issues, differentiation of gender roles, or trends in popular culture. Credit units: 3 ECTS Credit Units: 6. Aut (A. Çınar)

POLS 433  Politics of European Integration
This course aims to provide the 4th year students with a basic understanding of the process of European integration and second, focus on the historical evolution of the European Union and its institutions. Third, the course will analyse the challenges to the nation-state in Europe, specially those posed by integrative and fragmentary forces. The ultimate objective is to furnish students with the comprehension that the state is going through a major transformation in Europe due to the process of European integration. Credit units: 3 ECTS Credit Units: 6.

POLS 449  Political Concepts
This course aims to consider a range of fundamental concepts in political theory, not for the purpose of introduction, but for the purpose of reflection. These concepts will be democracy, justice, ideology, liberty, party, politics, power, public opinion, representation, revolution, rights, rule, state etc. The intention of the course will be an intensive study and discussion of writings on these concepts. The basic text will be "Political Innovation and Conceptual Change" eds. Ball, Farr and Hanson. Credit units: 3 ECTS Credit Units: 6. Aut (J. J. Alexander)

POLS 452  State Society and Citizenship in Turkey
The recent decades have witnessed the revival of the interest on citizenship issues worldwide. This course aims at analyzing the issue of citizenship in Turkey with respect to its relations with the state and society. The first part of the course will provide the students with theories on citizenship, how it emerged and developed, and various aspects of citizenship in the current literature. In the second part of the course, related with the contemporary debates on citizenship, namely identity politics, multiculturalism and constitutional citizenship, the Turkish experience will be analyzed. This part will consist of the historical background, the construction attempts, legal process and the current situation in Turkey. Credit units: 3 ECTS Credit Units: 6.

POLS 454  Politics Media and Propaganda
This course deals with propaganda and the construction of news in the context of political life. Particular emphasis is given to prejudice and bias and reinforcing of ethnic, religious and national stereotypes. Propaganda is studied as a tool of social control both formally and informally. The course will concentrate on the 19th century but there will be references back to earlier forms of propaganda. Credit units: 3 ECTS Credit Units: 6. Spr (J. M. Salt)

POLS 455  World Politics I
The course aims at analysing the basic dynamics behind the evolution of the international, and particularly the European political order in the 20th century with reference to the theories of international relations and international political economy. It covers topics in a chronological order, the pre and post-World War politics, the interwar period, the Second World War, the Cold War and post-Cold War period. The chronological design of the course will revolve around the main topics of international politics in the relevant periods, such as colonialism, post-colonialism, nationalism, liberalism, fascism, postmodernism, etc. Credit units: 3 ECTS Credit Units: 6. Aut (I. N. Grigoriadis)

POLS 457  Literature and Society
This course examines literature as a social product, analyzing ways in which it reflects, influences, reacts to and participates in various social systems. The first part of the course will focus on the question of how different literary paradigms from realism, through modernism, surrealism, to postmodernism represent reality, and how they function as modes of social critique. In the second part of course, we will discuss how literature imagines social and political alternatives, how it forms collective identities, and how it helps to transform dominant social and cultural norms. Credit units: 3 ECTS Credit Units: 6.

POLS 464  Interculturalism and Europe
This course will cover the conceptual and practical aspects of interculturalism in Europe from an interdisciplinary perspective. It will focus on how cultural diversity is perceived and experienced by individuals (based upon anthropological studies) and the migration policies and politics of the European Union since the end of Cold War. Credit units: 3 ECTS Credit Units: 6.
POLS 465 Governance and Public Policy
This course covers basic concepts, analytical tools, theoretical approaches and empirical information in studying public policy and governance in comparative perspective. It studies causal theories of policy variation and policy change across different countries and policy sectors. By drawing on a sample of policy areas, the course examines policy, politics and polity-level variables in phases of policy cycle. It traces emergence of ‘governance’ as distinctive mode of policymaking emphasizing sharing of competences among different public and private actors. It contextualizes policy variation and change by studying impact of domestic, regional and global interactions. Credit units: 3 ECTS Credit Units: 6.

POLS 466 Issues in Political Theory
Since Plato the relationship between aesthetics and ethics has been insolvable. In political theory, also subject to controversy are “aestheticized reality”, de-politization and postmodern representations. This course, at the outset, examines different connotations of aesthetics and its conceptual interdependence on ethics. In the second part it analyzes the impact of aesthetics on the moral and political distinctions between the good and evil. In the third part it reviews the relationship between aesthetics, ethics and different conceptualizations of politics. Each part in order to discuss possible implications of viewing “political realities” from aesthetical-ethical points of view, it offers some historical and contemporary views. Auschwitz, communist experimentations with reality, as well as the twenty first century episodes of suicide bombing, torture and the dismembering of human sensibilities. Credit units: 3 ECTS Credit Units: 6. Spr (B. Helvacıoğlu)

POLS 473 Democratization Process in Turkey
This course deals with the constitutional and legal amendments in the last 20 years designed to improve the standards of democracy in Turkey. Credit units: 3 ECTS Credit Units: 6.

POLS 475 European Union: The Challenges
This course will focus on the history, changing structure and enlargement processes of the European Union. We will then explore the more philosophical issues, for example the cultural homogenization and globalization debate. From the cultural geographic perspective we will critically examine the complexity of the issues of cultural identity, language, ethnicity, religion, migration, and gender. Finally we will study the opportunities and challenges in the process of Turkey’s accession to the European Union. Credit units: 3 ECTS Credit Units: 6.

POLS 476 World Politics II
The course is designed to address the basic issues of world politics in conjunction with the process of European integration especially during the cold war and post-Cold War periods. It covers topics like deterrence, terrorism, nationalism, drug trafficking, immigration, refugees, new wars, regional and international organizations and their old-new roles in world European politics. Credit units: 3 ECTS Credit Units: 6. Spr (I. N. Grigoriadis)

POLS 478 Public Opinion and Political Behavior in Democracies
Democracy is often referred to as government of the people, by the people, and for the people. This course is therefore designed to introduce students to research on citizen political behavior and public opinion in contemporary democracies. The course will thus examine what people in different countries think about politics, how they form their opinion, and how and why people participate in the political process. It will also take up how public opinion and behavior affect each other and what consequences they have for the democratic governance. Credit units: 3 ECTS Credit Units: 6.

POLS 483 Liberalism and Socialism: Past and Present
This course examines the rise of liberalism and socialism from the nineteenth century to the present. Its primary focus is on the radically different conceptions of freedom, the good life and collectivism in liberal and socialist theories. Its objective is two-fold: to distinguish between political ideologies and political theories and to provide the students with a firm historical and theoretical background on two of the most popular ideologies which have shaped world politics in the last two centuries. Credit units: 3 ECTS Credit Units: 6.

POLS 484 Life, Nature and Politics
A survey of past and current approaches in the social sciences which try to understand social and political institutions by paying special attention to the fact that human beings are living entities that interact with nature. The focus will be on contemporary sociobiological research which tries to analyze language and communication, social hierarchies, gender relations, moral and religious values, and the formation of habits and customs by models borrowed from the life sciences. Credit units: 3 ECTS Credit Units: 6. Aut (M. N. Karakayalı)

POLS 487 Politics of International Migration
This course examines the aspects of the international migration in international relations. The topics to deal will be the terminology of migration, the causes and the results of migrations, the situation of sending and receiving countries, illegal migration, human trafficking, refugees, international law dealing with refugees, international organization and how they are working in this area, the importance of migration in international relations. Credit units: 3 ECTS Credit Units: 6.

POLS 488 Film and Politics
This course examines film as an extension of politics and a medium of political engagement. Concentrating on the second half of the twentieth century, we will discuss the fictions and the realities of various historical events.
of these phenomena, analyze the extent to which existing theories contradict or complement each other, and what political influence they were able to generate. Credit units: 3 ECTS Credit Units: 6. Spr (D. Just)

POLS 490 Democracy, Development and Human Rights
This course is designed to introduce students to the issues of democracy, development, and human rights from the perspective of comparative politics. We will discuss different conceptualizations, theories, and measurements of these phenomena, analyze the extent to which existing theories contradict or complement each other, and whether their policy prescriptions have been successful in the real world. While the course focuses on how democracy, development, and human rights relate to each other, we will also address the effects of domestic and international institutions, natural resources, political culture, and globalization. The course is designed to provide a general understanding of the patterns and challenges to democracy, development, and human rights; however, we will also pay some attention to regional differences among Latin America, East Central Europe, Asia, and the Middle East. Credit units: 3 ECTS Credit Units: 6. Spr (A. Just)

POLS 494 The Turkish Politics of Modernization and the Religious Debate
The religious debate related to some aspects of "the politics of modernization" in general and "political modernization," that is, modernization in the political system itself in particular has now become a topic of renewed interest. A critical study and evaluation of some selected issues such as the religio-cultural justification of the Ottoman experience of the Constitutional Government, the abolition of the Caliphate, the moral foundation of democracy, nationalism with special reference to national identity and authenticity, secularism, "religious reforms," and education from the point of view of key religious responses will enable students to attain a more comprehensive understanding of politics-religion relationship in the late Ottoman Empire and modern Turkey. Credit units: 3 ECTS Credit Units: 6. Spr (E. M. Özdağla)

POLS 495 International Political Economy
Focusing on international political economy as inspired by both politics and economics, this course centers around the following topics: the neoclassical conception of an economy, new economic and political theories, national systems of political economy and the international trading, monetary and financial systems, multinationals corporations, economic and political development, and regional political and economic integration. Credit units: 3 ECTS Credit Units: 6.

POLS 497 Local and Global in Cities
This course explores the relationship between local dynamics and global developments in the context of cities. By doing so, it aims to reveal how today's cities are being transformed in the process of the interplay between local and global forces. It brings together research on the cities of both the global South and the North. Credit units: 3 ECTS Credit Units: 6. Aut (F. T. Erman)

GRADUATE COURSES

POLS 601 Seminar in Turkish Politics
This is an introductory course on Turkish politics for the Ph.D. Program in Political Science. It covers such topics as political culture, including its antecedents, nationalism and politics, Islam and politics the dynamics of the political system with special reference to political parties and political leaders, the military and politics, and the consequent trial and tribulations of democracy in Turkey. Credit units: 3 ECTS Credit Units: 6. Aut (M. Heper)

POLS 602 Seminar in Comparative Politics
This seminar is designed to introduce students to the major theoretical and conceptual debates in the sub-field of comparative politics. The weekly readings are chosen to reflect the variety of topics and methodological approaches in comparative politics. Credit units: 3 ECTS Credit Units: 6. Aut (S. Öüzürmez Bölükbaşı)

POLS 603 Advanced Academic English
In this course, students will advance in academic English as it relates to the field of political science. Academic and stimulating texts will serve as the foundation—both the stimulus and quality example—from which students will improve their knowledge and usage of English. Students will analyze the writing style and method of political science writers, write analytical essays of political science texts, lead discussions and deliver academic presentations. Credit units: 3 ECTS Credit Units: 6. Aut (M. D. Elwell)

POLS 604 Democratization Process in Turkey
This course will deal with the processes of democratization and liberalization in Turkey particularly in the light of constitutional and legislative reforms adopted between 1993 and 1995. Attention will also be given to the impact of the EU membership prospective. Credit units: 3 ECTS Credit Units: 6. Spr (Z. Sargılı)

POLS 605 The Public Sphere
This course takes the public sphere as the main field of politics where different political ideologies emerge, contending ideologies clash and power relations take shape. Originally developed by Jurgen Habermas, the notion "public sphere" has been extensively and critically debated by writers in relation to democracy, civil society,
state-society relations, political participation and the place and function of political identities in relation to these. This course surveys this debate and focuses on the different ways in which the “public sphere” is understood and contextualized, particularly in relation to ethnic, racial and gender identities. **Credit units:** 3 ECTS **Credit Units:** 6. **Spr (A. Çınar)**

**POLS 606 Seminar in Political Theory**

This course engages in a critical reading of a select number of contemporary thinkers from K. Marx in 19th to L. Irigaray 20th, and to S. Zizek in 21st century. The course starts with the most recent texts and moves backward in history. Although the questions posed each week revolve around the most pressing issues of the present political conjuncture, such controversial concepts as democracy, difference, representation and the subject are analyzed from within a broad range of perspectives. **Credit units:** 3 ECTS **Credit Units:** 6. **Spr (B. Helvacıoğlu)**

**POLS 608 Politics, Culture, Nation and Gender**

This course takes the realm of urban daily life as the locus of politics and investigates different dimensions of the making of national identities in relation to issues of gender, race, ethnicity, and class. The readings have been structured so as to explore the complexity of national identities and founding ideologies around several dimensions. First, they will address the ways in which national ideologies are constructed and propagated in relation to race, ethnicity, gender, class, religion or colonial relations, as one or several of these elements converge in the making and contestations of national ideologies in different contexts. Second, the course will simulate and analyze in the making and contestation of national ideologies, ranging from popular music, novels, architecture, art, films and mass media to clothing, food and other daily practices. **Credit units:** 3 ECTS **Credit Units:** 6.

**POLS 609 Issues in Urban Studies**

This course addresses the theoretical and methodological issues in studying the city as a socio-cultural entity, and it aims to reveal urban dynamics that shape the city and city spaces in a variety of contexts. Attention is paid to emerging social and spatial landscapes in our era of globalization. In the class such concepts and topics are explored as the global city, the city in modernity and post-modernity, urban ethnography, gentrification and ghettoization, gated communities, the privatization of urban space, and urban governance, as well as Third World urbanization, squatter formation, migrant enclaves, and local politics. The city is approached critically in terms of gender, ethnicity and class. **Credit units:** 3 ECTS **Credit Units:** 6. **Spr (P. T. Erman)**

**POLS 610 Research Methods**

The purpose of this course is to introduce you to the qualitative research methods in social sciences. Emphasis will be placed both on acquiring skills as a researcher and on learning to evaluate empirical work in political science. We will take up, in turn, basic concepts of qualitative research design and data collection. This is a seminar course and students will design their own research project in the light of the methods discussed in class sessions. **Credit units:** 3 ECTS **Credit Units:** 8. **Spr (H. T. Bölükbaş)**

**POLS 612 Seminar in Social and Cultural Studies:**

This course brings together concepts and perspectives from various fields of the human sciences such as sociology, psychoanalysis, anthropology and semiology. The focus will be on current analyses of how societies and cultures are formed and break down. Special attention will be paid to the problems and future of contemporary societies and cultures. **Credit units:** 3 ECTS **Credit Units:** 8. **Aut (M. N. Karakaya)**

**POLS 616 Political Cultures in the Middle East**

The overall aim of this course is to move away from traditional approaches to understanding the Middle East, through analysis of constitutions, parliaments, parties regional developments and interaction with the outside world, in favor of a more lateral approach based on the cultural content of Middle Eastern societies. **Credit units:** 3 ECTS **Credit Units:** 7.

**POLS 629 Turkey in Its Muslim Environment**

This course will deal with the relationships between Turkey and its Arab ‘neighbors’ and its place in the Muslim world generally. Starting points will be a definition of ‘neighbors’, the Ottoman legacy and the effect on relations between Turkey and Muslim countries of foreign and domestic policies adopted by the Turkish government after the foundation of the republic. Key issues will include Turkey’s role at the UN, in diplomacy and through peace-keeping operations (i.e. in Lebanon); complications in relationships with close Arab countries, especially Syria and Iraq; the water issue; economics; Turkey’s activities as a member of the Organization of the Islamic Conference; and the positioning of its Muslim world policies in the context of relations with the United States and the European Union. **Credit units:** 3 ECTS **Credit Units:** 6.

**POLS 633 Seminar on the European Union**

The aim of the course is to provide the graduate students with the basic knowledge of how the European Union formulates and its basic policies within the member states as well as the challenges and opportunities in the implementation of these policies. The course exclusively addresses the main policy areas of the European Union that include social policies, public policies, migration, citizenship, justice and home affairs and how they are adapted by the member states within the framework of Europeanization. **Credit units:** 3 ECTS **Credit Units:** 6.
POLS 634 European Union Politics
This course discusses advanced studies on EU politics. The focus is on the following issues: EU executive, legislative and judicial politics, public opinion, democracy, parties and elections, interest representation, regulation of the single market, expenditure policies, economic and monetary union, citizen freedom and security policies, and foreign policies. Credit units: 3 ECTS Credit Units: 6. Spr (S. Özçurumez Bölükbaşı)

POLS 635 Politics of Turkish Modernization
This course will explore the main themes around which Turkish modernization have revolved throughout the 20th century. First, the course will focus on debates and controversies over modernization, Westernization, nationalism and secularism as they become the main themes of the constitutive norms of the modern Turkish Republic. After briefly tracing the historical developments around these themes that have shaped Turkish society and politics since the founding of the Republic, the rest of the course examines different dimensions of the institutionalization and the negotiation of Turkish nationalism and its aspirations for a West-oriented modernity in various contexts of politics and daily life. Mainly, such negotiations are traced in daily life contexts such as the use of public spaces, urban planning issues, differentiation of gender roles, or trends in popular culture such as in music, political cartoons, films or television programs. Credit units: 3 ECTS Credit Units: 6. Aut (İ. İ. Aytürk)

POLS 636 Nationalism and Politics
The most important problem that infects the study of Turkish nationalism today is relative insularity in which its researchers are operating. Comparative studies are very few and the attempts to connect the field with the developments in nationalism studies of the last three decades are scanty. This doctoral seminar is designed to acquaint students of Turkish nationalism with select works from the enormous body of literature on nationalism as a global phenomenon and to draw parallels with the Turkish case. The main emphasis of the course will be on Turkish nationalism, covering a broad variety of topics from the origins of this ideology to its current institutionalization in the form of parties and civil society organizations. However, each one of those seminar themes will be embedded in a wider framework of theoretical analyses of nationalism as well as relevant case studies from other countries. Credit units: 3 ECTS Credit Units: 6.

POLS 637 Power and State
This course presents advanced notions of the concept of political power and how it applies to the nation state and new emerging political entities. We cover normative, descriptive and explanatory approaches to power and review how political theory, comparative politics and international relations deal with this phenomenon. Credit units: 3 ECTS Credit Units: 6.

POLS 639 The Ecology of Social Relations and Cultural Processes
This seminar type course aims to explore key concept and models in social theory. One major concern throughout the course will be compare and contrast the perspectives that were developed by social theorists since the nineteenth century with “ecological” approaches which propose that the forms that social relations and cultures take can only be intelligible by looking at how human agents interact with their natural and social environments. Credit units: 3 ECTS Credit Units: 6. Spr (M. N. Karakayalı)

POLS 640 Issues in Political Psychology
Political Psychology is an interdisciplinary field which explores topics that lie at the intersection between politics and psychology. This is a seminar course that explores various topics in political psychology. The course focuses on various theories in political psychology and their application to domestic and international political processes. Some of these theories are concerned with elite behavior in politics; others try to explain mass political behavior. The topics that will be covered in the seminar include: political communication and media, social identity, authoritarianism, social dominance orientation, formation of belief systems and political attitudes, decision making and information processing, political leadership, inter-group conflict and cooperation, and collective violence. Credit units: 3 ECTS Credit Units: 6. Aut (Ç. Ė. Çuhadar Gürkaynak)

POLS 641 The Ultimate Sources of Politics
Political theory often considers the question of the most just or right form of politics. This course aims at analyzing the three theoretical foundations of any form of politics originates with God; that politics originates with those who are spirited, strong or powerful; and that it originates with the people. The course will consider them on its own terms: first, theocracy, then timocracy, and finally democracy. Credit units: 3 ECTS Credit Units: 6. Aut (J. J. Alexander)

POLS 643 Issues in Political Theory
This is a higher level course which aims to extend political theory in terms of depth and breadth. In terms of depth, several major political works (highways) will be considered more reflectively and at more length than is usually possible elsewhere. And in terms of breadth, several rarely studied, little known or highly unconventional works (byways) which have contributed to political theory from odd angles, or what might be seen as cul-de-sac, will be studied. It is hoped that these two different approaches will give a better insight into the canons and canonical subjects of political theory than is possible in a more traditional course. Credit units: 3 ECTS Credit Units: 6.
POLS 645 Voting Behavior and Political Parties
This course is designed to introduce students to the field of research on electoral politics in contemporary democracies. It focuses on understanding how electoral democracy works and assessing how well it works. We will analyze how election outcomes result from the interplay of preferences and strategies among voters and political parties, and how this process is affected by various institutional arrangements (e.g. electoral systems), social cleavages, the media, and economy. Credit units: 3 ECTS Credit Units: 6.

POLS 647 Social Scientific Inquiry and Qualitative Methods
This seminar type course aims to equip social science students with a solid background in the history and philosophies of science, so as to be able to reflect critically on their own practice as researchers. The first major aim of the course is to introduce students to different epistemological and ontological perspectives in contemporary literature. Students will also be introduced to different approaches in the rapidly growing area of Science and Technology Studies, which investigate the social context and implications of scientific practices. Finally, as the second major aim of the seminar, students will have a chance to explore the logic and problems of qualitative research in the social sciences in light of the issues raised in the first part of the course. Credit units: 3 ECTS Credit Units: 6.

POLS 699 Ph.D. Dissertation
Credit units: None ECTS Credit Units: 24. Aut (Staff) Spr (Staff)
DEPARTMENT OF PSYCHOLOGY


Psychology is the study of mind and behaviour. It explores the way in which humans (and sometimes animals) see, learn, remember, and think; as well as the way they behave among others. It also looks at the relationship between mind and brain physiology, and studies how all these faculties develop from conception and birth through to the end of life.

Psychology has a wide scope. Its subject matter ranges from biology of the brain and the nervous system, to social issues like what makes people behave the way they do in a group. Thus, it is widely accepted that psychology is a discipline of both natural and social science. There are five core areas of psychological science. These are biological, cognitive, social, developmental, and personality psychology. The undergraduate program offered by the department aims to provide a balanced education in all these areas as well as some more specialised areas offered as electives. It places importance on an active learning process with discussion-based classes and partly essay-based assessment.

The most important aspect of the program is its emphasis on scientific method and research. It is impossible to learn everything there is to know about such a vast area of scientific study. Thus it is more important to gain an understanding of the methods with which to study mind and behaviour. The main aim of the program therefore is to establish a good understanding of scientific method and analytic thinking as well as skills necessary to conduct research including data analysis and efficient use of computer software. In this capacity, students are required to take part in and conduct a range of research projects, which involve an increasing level of independence as the course progresses. In the final year students are required to complete an independent research project culminating in a senior thesis.

The program also aims to place somewhat more emphasis on the natural science aspect of psychology than social. Both the curriculum and research conducted in the department provide opportunity for students to specialise in cognitive psychology and neuroscience. However, the program also gives the choice to students to take courses in specialised application areas of psychology like health psychology or clinical psychology.

UNDERGRADUATE CURRICULUM

FIRST YEAR

<table>
<thead>
<tr>
<th>Autumn Semester</th>
<th>Credits / ECTS Credits</th>
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<tbody>
<tr>
<td>CS 123</td>
<td>Introduction to Computing and Programming for Social Sciences 3 / 6</td>
</tr>
<tr>
<td>ENG 101</td>
<td>English and Composition I 3 / 6</td>
</tr>
<tr>
<td>GE 100</td>
<td>Orientation 1 / 1</td>
</tr>
<tr>
<td>MATH 105</td>
<td>Introduction to Calculus I 4 / 7</td>
</tr>
<tr>
<td>PSYC 101</td>
<td>Introduction to Psychology I / Cognitive and Biological 3 / 6</td>
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<tr>
<td>TURK 101</td>
<td>Turkish I 2 / 1</td>
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<table>
<thead>
<tr>
<th>Spring Semester</th>
<th>Credits / ECTS Credits</th>
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<tbody>
<tr>
<td>ENG 102</td>
<td>English and Composition II 3 / 6</td>
</tr>
<tr>
<td>MATH 106</td>
<td>Introduction to Calculus II 4 / 7</td>
</tr>
<tr>
<td>MBG 110</td>
<td>Introduction to Modern Biology 4 / 7</td>
</tr>
<tr>
<td>PSYC 103</td>
<td>Introduction to Psychology II / Social and Developmental 3 / 6</td>
</tr>
<tr>
<td>TURK 102</td>
<td>Turkish II 2 / 1</td>
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SECOND YEAR

<table>
<thead>
<tr>
<th>Autumn Semester</th>
<th>Credits / ECTS Credits</th>
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<tbody>
<tr>
<td>GE 250</td>
<td>Collegiate Activities Program I 3 / 6</td>
</tr>
<tr>
<td>HIST 200</td>
<td>History of Turkey 4 / 7</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
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</tr>
<tr>
<td>PSYC 200</td>
<td>Cognitive Psychology</td>
</tr>
<tr>
<td>PSYC 203</td>
<td>Statistics I</td>
</tr>
<tr>
<td>PSYC 204</td>
<td>Research Methods I</td>
</tr>
<tr>
<td>PSYC 230</td>
<td>Social Psychology</td>
</tr>
<tr>
<td>GE 251</td>
<td>Collegiate Activities Program II</td>
</tr>
<tr>
<td>HUM 111</td>
<td>Cultures Civilizations and Ideas I</td>
</tr>
<tr>
<td>PSYC 205</td>
<td>Statistics II</td>
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<tr>
<td>PSYC 206</td>
<td>Research Methods II</td>
</tr>
<tr>
<td>PSYC 220</td>
<td>Brain and Behaviour</td>
</tr>
<tr>
<td>PSYC 240</td>
<td>Developmental Psychology</td>
</tr>
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<td>Elective</td>
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**Third Year**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits / ECTS Credits</th>
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<tbody>
<tr>
<td>PSYC 310</td>
<td>Perception, Attention, and Action</td>
<td>3 / 6</td>
</tr>
<tr>
<td>PSYC 340</td>
<td>Learning, Remembering, and Thinking</td>
<td>3 / 6</td>
</tr>
<tr>
<td>PSYC 350</td>
<td>Cognitive and Social Development</td>
<td>3 / 6</td>
</tr>
<tr>
<td>PSYC 433</td>
<td>Abnormal Psychology</td>
<td>3 / 6</td>
</tr>
<tr>
<td>Electives (2)</td>
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<tr>
<td>HUM 112</td>
<td>Cultures Civilizations and Ideas II</td>
<td>3 / 4</td>
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**Fourth Year**

<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits / ECTS Credits</th>
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<tbody>
<tr>
<td>PSYC 399</td>
<td>Summer Training</td>
<td>- / -</td>
</tr>
<tr>
<td>PSYC 498</td>
<td>Senior Project I</td>
<td>3 / 6</td>
</tr>
<tr>
<td>Electives (2)</td>
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<tr>
<td>Restricted Elective</td>
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<td>3 / 6</td>
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</tbody>
</table>

**Departmental Elective Courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits / ECTS Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSYC 301</td>
<td>Laboratory in Psychological Research</td>
<td>4 / 6</td>
</tr>
<tr>
<td>PSYC 304</td>
<td>Industrial Psychology</td>
<td>3 / 6</td>
</tr>
<tr>
<td>PSYC 320</td>
<td>Cognitive Neuroscience</td>
<td>3 / 6</td>
</tr>
<tr>
<td>PSYC 330</td>
<td>Theory and Practice of Applied Social Psychology</td>
<td>3 / 6</td>
</tr>
<tr>
<td>PSYC 360</td>
<td>Individual Differences and Personality</td>
<td>3 / 6</td>
</tr>
<tr>
<td>PSYC 400</td>
<td>Psychology in Historical Context</td>
<td>3 / 6</td>
</tr>
<tr>
<td>PSYC 403</td>
<td>Experimental Methods in Psychology</td>
<td>3 / 6</td>
</tr>
<tr>
<td>PSYC 405</td>
<td>Introduction to FMRI</td>
<td>3 / 6</td>
</tr>
<tr>
<td>PSYC 410</td>
<td>Neuropsychology</td>
<td>3 / 6</td>
</tr>
<tr>
<td>PSYC 415</td>
<td>Cognitive Aging</td>
<td>3 / 6</td>
</tr>
<tr>
<td>PSYC 420</td>
<td>Selected Topics in Cognitive Psychology</td>
<td>3 / 6</td>
</tr>
<tr>
<td>PSYC 421</td>
<td>Selected Topics in Social Psychology</td>
<td>3 / 6</td>
</tr>
<tr>
<td>PSYC 422</td>
<td>Selected Topics in Developmental Psychology</td>
<td>3 / 6</td>
</tr>
<tr>
<td>PSYC 430</td>
<td>Clinical Psychology</td>
<td>3 / 6</td>
</tr>
<tr>
<td>PSYC 431</td>
<td>Psychological Testing and Measurement</td>
<td>3 / 6</td>
</tr>
<tr>
<td>PSYC 434</td>
<td>Child and Adolescent Psychopathology</td>
<td>3 / 6</td>
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<tr>
<td>PSYC 435</td>
<td>Industrial and Organisational Psychology</td>
<td>3 / 6</td>
</tr>
<tr>
<td>PSYC 436</td>
<td>Economic Psychology and Consumer Behaviour</td>
<td>3 / 6</td>
</tr>
<tr>
<td>PSYC 437</td>
<td>Program Evaluation</td>
<td>3 / 6</td>
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</tbody>
</table>
The undergraduate curriculum requires students to take a total of 16 elective courses. At least 7 (seven) of these must be chosen from the list of Psychology (PSYC) "elective courses" seen above. Not all of these courses may be offered in a given academic year, and new courses not mentioned here may be offered during the academic year. Available courses will be announced by the Department at the beginning of each academic year mainly in the "undergraduate" section of the psychology department website (www.psy.bilkent.edu.tr). Students have the sole responsibility to follow announcements made on the website and other media specified by the department.

At least 7 (seven) elective courses in the curriculum must be chosen from the list of "Elective".

At least 2 (two) elective courses in the curriculum must be chosen from the list of "Restricted Elective".

These lists may be changed during the academic year, which will be announced on the department website. Elective lists can also be followed under STARS Academic Units page.

MINOR PROGRAM
The minor Program in Psychology aims to provide the student with a general introduction to the main issues in the science of psychology. Demonstrating the way psychologists study mind and behaviour, the minor program will form the basis for further study in the field. The minor program student must take three fundamental courses in Psychology that require no specialized background. Cognitive Psychology studies the way people know: perception, memory and learning among its main focuses. Social Psychology is the study of mind and behaviour of the individual in a group setting: from families to workplace organisation, people spend a great deal of their lives in the presence of others. Finally, Developmental Psychology investigates the way people develop from birth to old age. In addition to these three courses, minor candidates are expected to attend three elective courses offered by the department. This is an opportunity for students to further deepen their understanding in a particular area, and experience first hand, contemporary research in psychological science.

Prerequisite Courses:
PSYC 100 Introduction to Psychology

CURRICULUM

<table>
<thead>
<tr>
<th>Courses</th>
<th>Credits / ECTS Credits</th>
</tr>
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<tbody>
<tr>
<td>PSYC 200</td>
<td>Cognitive Psychology</td>
</tr>
<tr>
<td>PSYC 230</td>
<td>Social Psychology</td>
</tr>
<tr>
<td>PSYC 240</td>
<td>Developmental Psychology</td>
</tr>
<tr>
<td>Electives (3)</td>
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</tbody>
</table>

COURSE DESCRIPTIONS

UNDERGRADUATE COURSES

PSYC 100  Introduction to Psychology
This course is a general introduction to the main issues and findings in psychological science. It lays out the kinds of questions facing psychologists trying to study the mind and behaviour, and it covers some major methods
of answering them. The course spans the major research fields of psychology, presenting major findings from biological, cognitive, social, developmental, and personality psychology. It also gives a brief introduction to mental disorders and clinical psychology. Credit units: 3 ECTS Credit Units: 6. Aut (M. M. Adams, E. Ulaşan Özgüle) Spr (M. M. Adams, E. İnaç, E. Ulaşan Özgüle)

**PSYC 101 Introduction to Psychology I / Cognitive and Biological**

This course is an in-depth introduction to the theories, methods and findings of psychological science. The course focuses on the biological and cognitive aspects of behavior. Topics covered include the brain and nervous system, perception, learning, thinking, memory, motivation and consciousness. Credit units: 3 ECTS Credit Units: 6. Aut (S. Tek) Spr (S. Tek)

**PSYC 102 Introduction to Social Psychology**

This course is designed to acquaint the student with the nature and causes of individual behavior in social situations; to identify the factors that shape feelings, behavior and thought. The topics to be covered include: the research methods of social psychology, social perception, social cognition, attitudes, prejudice/discrimination, interpersonal attraction, social influence, aggression, individual behavior in groups, and applications of social psychology in health, the legal system and the work setting (organizations). Credit units: 3 ECTS Credit Units: 5. Aut (Z. Önen, E. Ulaşan Özgüle) Spr (G. Baray, J. Gürzumar, E. Ulaşan Özgüle)

**PSYC 103 Introduction to Psychology II / Social and Developmental**

This course is a continuation of Introduction to Psychological Science 1, PSYC 101. Topics covered in this course include, testing and intelligence, human development, personality, social psychology, abnormal psychology, treatment of psychological disorders and industrial/organizational psychology. Credit units: 3 ECTS Credit Units: 6. Spr (J. W. P. Allen)

**PSYC 110 Psychological Methods**

This course introduces main types of research design and issues involved in designing a good study. Its practical component involves reading classic empirical research papers and writing reports on the scope, methods, and findings of each. Credit units: 3 ECTS Credit Units: 7. Aut (H. İlğaz) Spr (H. İlğaz)

**PSYC 200 Cognitive Psychology**

This course provides a comprehensive introduction the area of cognitive psychology. It lays out the emergence and importance of cognitive psychology as a field of scientific research. Issues and findings are presented in sensation and perception, learning, memory, problem solving, thinking and reasoning, and language. Credit units: 3 ECTS Credit Units: 7, Prerequisite: PSYC 100 or PSYC 103. Aut (H. Boyacı) Spr (Staff)

**PSYC 201 Statistics and Research Methods in Psychology I**

Main concepts and methods of statistical data analysis are covered and practiced. This is followed by a mini-research project requiring the use of the statistical technique being studied. Finally students write a research report on each of these mini-projects, outlining the theoretical issues, methods, results, and implications. Main topics covered in statistics: graphical representations, variables, distribution, measures of central tendency, probability, X², t-test, and one-way analysis of variance (ANOVA). Credit units: 4 ECTS Credit Units: 7, Prerequisite: CS 121 and PSYC 100 and PSYC 110. Aut (D. M. Lewis)

**PSYC 202 Statistics and Research Methods in Psychology II**

This is the continuation of PSY 201 and follows an identical structure. Some topics covered in statistics: correlation, simple regression, multivariate analysis of variance. Credit units: 4 ECTS Credit Units: 7, Prerequisite: PSYC 201. Spr (D. M. Lewis)

**PSYC 203 Statistics I**

The main concepts and methods of statistical analysis used by psychologists are covered. Topics include probability theory, graphic representations, and distributions, measures of central tendency, non-parametric statistics (including Chi Square) and t-test. Students will practice using these statistics. Credit units: 3 ECTS Credit Units: 6, Prerequisite: CS 123 and PSYC 103.

**PSYC 204 Research Methods I**

This course introduces to the various ways in which psychologists study behavior. Issues include understanding research design, developing hypotheses and learning how to write a scientific paper. Students will also learn to use various bibliographic sources. Student will carry out a series of studies and white them up in American Psychological Association style. Credit units: 3 ECTS Credit Units: 6, Prerequisite: CS 123 and PSYC 103.

**PSYC 205 Statistics II**

This is a continuation of Psychological Statistics 1, PSYC 203. Topics to be covered include analysis of variance(one-way and multivariate), correlation, regression and multiple regression. Credit units: 3 ECTS Credit Units: 6, Prerequisite: PSYC 203.
PSYC 206  Research Methods II
This course is a continuation of Research Methods 1 (PSYC 204). Students will be exposed to more complex designs such as factorial designs as well as correlational designs and quasi-experimental design. A number of studies will be conducted. Credit units: 3 ECTS Credit Units: 6, Prerequisite: PSYC 203 and PSYC 204.

PSYC 220  Brain and Behaviour
As a basis for all mental activity and behaviour the nervous system and the brain in particular are quite important. This course introduces the structure and workings of the brain, its main characteristics, and its relationship to mind and behaviour. Credit units: 3 ECTS Credit Units: 6, Prerequisite: (PSYC 100 or PSYC 103) and (MBG 101 or MBG 110). Aut (H. H. Katialpöndü) Spr (M. M. Adams)

PSYC 230  Social Psychology
This course is a comprehensive introduction to the field of empirical research which examines the individual in a social setting. It covers areas such as social cognition, social perception, attitudes, conformity, and aggression. Credit units: 3 ECTS Credit Units: 6, Prerequisite: PSYC 100 or PSYC 103. Aut (G. Baray, G. Günaydın) Spr (G. Baray)

PSYC 240  Developmental Psychology
The mind develops from conception right up to the end of life. In order to understand our nature and capabilities, it is important to know how the mind develops and what affects the course of this development. Main topics covered are Piaget's model of cognitive development and its critique, language acquisition, social interaction, attachment, parenting styles, and adolescent development. Credit units: 3 ECTS Credit Units: 6, Prerequisite: PSYC 100 or PSYC 103. Aut (H. İlgaz) Spr (S. Tek)

PSYC 301  Laboratory in Psychological Research
This course follows the same system as the prerequisites PSY 201 and 202; the difference is that students form small groups in which to carry out research on a topic of their choice (from among a set of alternatives) and complete two such projects in the semester. They conduct all aspects of the research with supervision from the instructor, including design, analysis and report write-up. The statistics component of the course covers more advanced techniques than in the previous year such as factor analysis and multiple regression. Credit units: 4 ECTS Credit Units: 6, Prerequisite: PSYC 202. Aut (M. M. Adams, H. Boyaci, C. E. Nelson)

PSYC 310  Perception, Attention, and Action
The focus here is on perception, specifically visual perception. This is the part of cognitive psychology, where we know more than any other area about the brain's involvement. Thus, studying perception, and specifically vision, tells us much about the rest of our cognitive capacities. Main topics covered are physiological structure of vision, modularity, attentional influences, spatial vision, colour vision, perceptual learning, categorical perception, and motion perception. Credit units: 3 ECTS Credit Units: 6, Prerequisite: PSYC 200 and PSYC 220. Aut (K. Doerschner) Spr (K. Doerschner)

PSYC 320  Cognitive Neuroscience
This course covers the techniques and findings that have allowed us to know much more about what happens in our brains when we see, hear, think, talk, and even dream. Recent technological advances such as fMRI brain imaging techniques are covered and findings from studies using such techniques are discussed. Credit units: 3 ECTS Credit Units: 6, Prerequisite: PSYC 200 and PSYC 220. Spr (H. Boyaci)

PSYC 330  Theory and Practice of Applied Social Psychology
Social psychology has accumulated a wealth of knowledge as well as theories to predict human behaviour in social settings. This knowledge is fast becoming crucial in understanding social problems such as immigration, national identity, inter-group relations, and conflict resolution. The course introduces studies and applications of social psychological findings to social issues and problems. Credit units: 3 ECTS Credit Units: 6, Prerequisite: PSYC 230. Aut (G. Günaydın) Spr (G. Günaydın)

PSYC 340  Learning, Remembering, and Thinking
A great deal of what we call cognition (knowing) is a direct result of our capacity to learn and remember. Scientists have long been interested to find out exactly how we learn, and what happens in our minds and brains when we do learn. Learning of course is not enough; we also need to remember what we have learned. How does memory work? What is the best way of remembering things we learn? How are memories processed before they become a part of our mental world? After remembering, we have to make use of those memories: we have to relate them with each other, see connections, and reach to conclusions. In other words, we have to think. Credit units: 3 ECTS Credit Units: 6, Prerequisite: PSYC 200 and PSYC 220. Aut (J. W. P. Allen) Spr (J. W. P. Allen)

PSYC 350  Cognitive and Social Development
This course elaborates on the previous year's developmental psychology course, providing a more in-depth analysis of problems and up-to-date findings in cognitive and social development. The object is to see the relationship between developmental processes and the adult mind. Main topics covered are development of
logic and reasoning, memory, spatial cognition, perception, face recognition, prosocial behaviour, sociocultural approaches. Credit units: 3 ECTS Credit Units: 6, Prerequisite: PSYC 240. Aut (J. W. P. Allen) Spr (H. Ilgaz)

**PSYC 360 Individual Differences and Personality**

While, the rest of psychology studies the similarities between people, this area looks at what makes each individual distinct from others. It investigates areas such as intelligence, aptitude, personality traits, and development of a self concept, and tries to answer questions on why each individual turns out the way he/she does. One very important issue here is the famous nature-nurture debate: are we born like this or do we become what we are as we go through life? The course also looks at methods with which psychologists assess intelligence and personality. Credit units: 3 ECTS Credit Units: 6, Prerequisite: PSYC 230 and PSYC 240. Aut (D. M. Lewis) Spr (D. M. Lewis)

**PSYC 399 Summer Training**

This course refers to the internship course which will need to be satisfied with an internship to be conducted in a relevant area during the summer at the end of the third year in the program. The course will be a non-credit (0 credit) course to be marked as S or U. Credit units: None ECTS Credit Units: None. Aut (K. Doerschner) Spr (Staff)

**PSYC 401 Senior Thesis I**

This is a final year research project. Each student gets together with a supervisor, a member of academic staff whose research area is related to a topic of research he/she is interested in. Students spend a year to plan, design, conduct, analyse and write-up a research project. The role of the supervisor is minimal. The object is to acquire skills necessary to conduct an independent project. Students will have the opportunity to get together in tutorial groups with others and discuss common problems and difficulties and get instruction on these from a member of academic staff. Credit units: 3 ECTS Credit Units: 6, Prerequisite: PSYC 301. Aut (Staff) Spr (Staff)

**PSYC 402 Senior Thesis II**

This is a final year research project. Each student gets together with a supervisor, a member of academic staff whose research area is related to a topic of research he/she is interested in. Students spend a year to plan, design, conduct, analyse and write-up a research project. The role of the supervisor is minimal. The object is to acquire skills necessary to conduct an independent project. Students will have the opportunity to get together in tutorial groups with others and discuss common problems and difficulties and get instruction on these from a member of academic staff. Credit units: 3 ECTS Credit Units: 6, Prerequisite: PSYC 301 and PSYC 401. Spr (Staff)

**PSYC 403 Experimental Methods in Psychology**

The course gives introduction to standard experimental methods used in the study of cognitive processes. These include variety of psychophysical procedures including method of adjustment, alternative forced choice, and adaptive procedures, as well as signal detection measures. The course also emphasizes design concerns, such as accurate timing of stimulus presentation, and introduces basic concepts of experimental design using computer generated stimuli. Credit units: 3 ECTS Credit Units: 6, Prerequisite: PSYC 205 and PSYC 206.

**PSYC 405 Introduction to FMRI**

This course covers the basic principles of Functional Magnetic Resonance Imaging (fMRI), including the physical principles of signal generation in MRI and the relation of neuronal activity with the blood-oxygen-level-dependent (BOLD) signal. The course emphasizes techniques to conduct experiments investigating the functional activity of the nervous system, and statistical analysis of the fMRI data. Weekly hands-on sessions are held using the in-campus MRI scanner. The objectives of the course are to gain a basic understanding of physical and biological concepts of fMRI; a basic knowledge of fMRI data collection and the operation of the scanner (through weekly hands-on sessions); a basic knowledge of IMRI experimental design. Credit units: 3 ECTS Credit Units: 6, Prerequisite: PSYC 200 and PSYC 220 and PSYC 320. Aut (H. Boyacõ)

**PSYC 410 Neuropsychology**

This advanced course is a more in-depth study of the brain and the nervous system in relation to mind and behaviour. Specifically, here, disorders of the brain, lesions resulting from accidents and strokes, and the effects of these on mental capacity and behaviour are discussed. The implications of such findings are discussed particularly in relation to philosophical questions such as free-will and self determination. Credit units: 3 ECTS Credit Units: 6, Prerequisite: PSYC 220. Spr (K. Doerschner)

**PSYC 415 Cognitive Aging**

This course is designed to give students an accurate understanding of the behavioral/cognitive, physiological, and biological changes that people experience as they grow older. It will acquaint students with the underlying theories as to why these changes occur as well as possible interventions that might prevent these alterations. Students will read and present relevant research articles in order to understand the critical issues of later-life change. Credit units: 3 ECTS Credit Units: 6, Prerequisite: PSYC 200 and PSYC 220.

**PSYC 420 Selected Topics in Cognitive Psychology**

Members of academic staff cover a research topic that they are working on, presenting an in-depth, advanced understanding of the research problem, data that have been collected by the instructor or colleagues, and a
discussion of these results in relation to the bigger questions. This course brings final year students up to date with a current research area and provides them an opportunity to continue academic study in this or other areas. 

Credit units: 3 ECTS Credit Units: 6, Prerequisite: (PSYC 100 or PSYC 103) and PSYC 220. Aut (K. Doerschner)

**PSYC 421 Selected Topics in Social Psychology**

Members of academic staff cover a research topic that they are working on, presenting an in-depth, advanced understanding of the research problem, data that have been collected by the instructor or colleagues, and a discussion of these results in relation to the bigger questions. This course brings final year students up to date with a current research area and provides them an opportunity to continue academic study in this or other areas. 

Credit units: 3 ECTS Credit Units: 6, Prerequisite: (PSYC 100 or PSYC 103) and PSYC 230. Aut (G. Baray)

**PSYC 430 Clinical Psychology**

The study of abnormal behaviour and mental disorder has led to techniques that have been developed by clinical psychologists to deal with such problems. This course provides an introduction to the most-well known applications of psychology. It talks about how clinical psychology has developed ways of dealing with mental disorders and problems. In addition, it covers research and applications of a new, related field, health psychology which is related to psychological findings concerning a wider understanding of health than mental disorders. 

Credit units: 3 ECTS Credit Units: 6, Prerequisite: (PSYC 100 or PSYC 103) and PSYC 350.

**PSYC 431 Psychological Testing and Measurement**

This course is a training in techniques of psychological assessment in areas like intelligence testing and personality testing. Problems associated with "measuring" human mind and behaviour are discussed and methods in dealing with these covered. 

Credit units: 3 ECTS Credit Units: 6, Prerequisite: PSYC 202 or PSYC 205. Aut (C. E. Nelson)

**PSYC 432 Selected Topics in Developmental Psychology**

Members of academic staff cover a research topic that they are working on, presenting an in-depth, advanced understanding of the research problem, data that have been collected by the instructor or colleagues, and a discussion of these results in relation to the bigger questions. This course brings final year students up to date with a current research area and provides them an opportunity to continue academic study in this or other areas. 

Credit units: 3 ECTS Credit Units: 6, Prerequisite: (PSYC 100 or PSYC 103) and PSYC 350.

**PSYC 433 Abnormal Psychology**

This course is about the study of mental disorders and problems. It covers the history of the understanding of mental health, and introduces the advances made. It provides an in-depth understanding of various disorders such as schizophrenia, depression, phobias, addiction, and sexual health. 

Credit units: 3 ECTS Credit Units: 6, Prerequisite: PSYC 200 and PSYC 290 and PSYC 240. Aut (N. Öztan) Spr (S. Tek)

**PSYC 434 Child and Adolescent Psychopathology**

This course provides an overview of psychopathology in childhood through adolescence from various perspectives. DSM descriptions, etiology, phenomenology and diagnosis for major disorders are covered. Diagnoses include disruptive behavior disorders, anxiety disorders, affective disorders, attention disorders and psychotic disorders. 

Credit units: 3 ECTS Credit Units: 6, Prerequisite: PSYC 433. Aut (Z. Tüzün)

**PSYC 435 Industrial and Organisational Psychology**

This course introduces the student to the main advances of this relatively new field, which explore the psychological aspects of working in an organisation. What makes a good organisation? What are good strategies in dealing with the "human factor" in the workplace? Who is good for which job? How can people develop their careers? These are the kinds of questions that this course introduces. 

Credit units: 3 ECTS Credit Units: 6, Prerequisite: PSYC 100 or PSYC 103. Aut (C. E. Nelson)

**PSYC 437 Program Evaluation**

Program evaluation is an activity that organizations do routinely either formally or informally because they are concerned with how well human services programs serve people in need. In the course we will cover such topics as why evaluation, role of evaluator, methods of evaluation, utilization of evaluations and ethics in evaluation. Although the course will focus on social programs the course is equally relevant to the evaluation of educational programs, training programs and organizational change programs. 

Credit units: 3 ECTS Credit Units: 6, Prerequisite: PSYC 100 or PSYC 103. Spr (C. E. Nelson)

**PSYC 438 Interpersonal Relationships**

The course examines interpersonal relationships primarily from a social psychological perspective, drawing on research from other fields of psychology including cognitive, developmental, clinical, and personality psychology as well as social-cognitive neuroscience. The central goal of the course is to familiarize students with cutting-edge theories and research in relationship science by defining and explaining the basic structure, functions, dynamics, and formation of human affectional ties. The course will survey a broad range of topics at the heart of relationship science, including interpersonal attraction and mate selection, formation of attachment bonds, social-cognitive processes in interpersonal relationships, jealousy and infidelity, relationship dissolution,
loneliness, social rejection, and the effects of social relationships on mental and physical well-being. Credit units: 3 ECTS Credit Units: 6, Prerequisite: (PSYC 100 or PSYC 103) and (PSYC 230 or PSYC 102). Spr (G. Günaydın)

**PSYC 439 Visual Neuroscience**
Visual science, a model and reference for all other areas in neuroscience, has seen remarkable advances in the last decade. This course covers basics of the visual system in great detail through review of recent literature. Topics covered include retinal mechanisms, visual pathways, subcortical and cortical processing, lightness and color, motion perception, object recognition, eye movements and attention. Credit units: 3 ECTS Credit Units: 6, Prerequisite: PSYC 320. Spr (H. Boyacı)

**PSYC 491 Introduction to Cognitive Psychology**
Cognition is a process composed of various phases like transferring sensory information to memory, retention, reasoning, logic, and problem solving. This course is intended to provide an introductory overview of theories and findings in the field of cognitive psychology. The main topics will include perception, memory, language and thought, problem solving and neuroscience. Credit units: 3 ECTS Credit Units: None. Spr (A. Michou)

**PSYC 492 Developmental Psychology**
This course focuses on developmental psychology which studies the stages and the lifelong development of human beings in the physical, cognitive, social and emotional domains. The main topics will include developmental research methods, Piaget's stages of cognitive development; Erikson's psychosocial stages of development; nature and nurture. Credit units: 3 ECTS Credit Units: None.

**PSYC 493 Learning: Theory and Practice**
This course covers theories and findings about how we acquire and develop knowledge and skills. Topics will include the physiology of learning, learning theories and approaches (e.g. behavioral, cognitive, social-cognitive). Credit units: 3 ECTS Credit Units: None.

**PSYC 498 Senior Project I**
This is a final year project course in which the students alone or with a small group work on a research project. These projects can be research-based studies or applied work. The students will develop a proposal during this course and design their project. Credit units: 3 ECTS Credit Units: 6, Prerequisite: PSYC 205 and PSYC 206.

**PSYC 499 Senior Project II**
This course is a continuation of PSYC 498 (Senior Thesis 1). During this semester students carry out their studies, write a final report and present them at a departmental poster session. Credit units: 3 ECTS Credit Units: 6, Prerequisite: PSYC 498.
FACULTY OF EDUCATION

Mehmet Baray, Ph.D., Acting Dean
Margaret K. Sands, Ph.D., Assoc. Dean

The Faculty of Education, in conjunction with the Graduate School of Education offers:

- Department of Computer and Instructional Technology Teacher Education
- Graduate Programs in Curriculum and Instruction
- MA Program in Management in Education
- MA Program in Teaching English as a Foreign Language (TEFL)

In addition, sports courses are offered through the Faculty’s Physical Education Unit.

ACADEMIC STAFF

Firdevs Tijen Aksüt, Assistant Professor
Ph.D., Educational Sciences (educational administration and planning), Middle East Technical University, 2006. Educational management, English language teacher training, psychology of learning.

Halis Necmi Aksüt, Assistant Professor
Ph.D., Educational Science, Middle East Technical University, 1998. Curriculum development, educational administration, teacher education.

Armağan Ateşkan, Instructor
Ph.D., Computer Education and Instructional Technologies, Middle East Technical University, 2008. Science and biology education, environmental issues.

Alipasa Ayas, Visiting Professor

Reyyan Ayfer, Instructor
M.S., Computer Engineering, Middle East Technical University, 1981. Database management, programming languages, data structures, information ethics and security.

Louisa Jane Buckingham, Assistant Professor
Ph.D., Linguistics, University of Granada, 2008. Sociolinguistics, language and technology, phraseology.

Barbara Clark, Instructor

Erdat Çataloğlu, Visiting Associate Professor

Sencer Çorlu, Assistant Professor
Ph.D., Curriculum and Instruction, Texas A&M University, 2012. Mathematics education, STEM education, advanced research methods.

Mutlu Isil Ergun, Instructor

Aysen Güven, Instructor

İlker Kalender, Assistant Professor
Ph.D., Secondary Science and Mathematics Education, Middle East Technical University, 2011. Computerized adaptive testing procedures, detection of creating/aberrant response pattern-through software, educational technology.
Engin Zafer Kiracbedel, Vocational Specialist
B.S., Computer Technology and Information Bilkent University, 2006. Programming languages, operating systems, computer applications, data structures.

Ceylan Kızılduman Yazıcı, Instructor
Ph.D., Computer Education and Instructional Technology, Middle East Technical University, 2009. Instructional technology and design, development and evaluation, print and web-based learning material production, instructor training, project management and English language teaching.

Seyit Köçberber, Assistant Professor
Ph.D., Computer Engineering and Information Science, Bilkent University, 1996. Information retrieval, database systems.

Ceylan Köse, Vocational Specialist
M.S., Software Management, Middle East Technical University, 2010. Programming languages, database applications.

Can Kızıltür, Instructor
Ph.D., Computer Education and Instructional Technologies, Middle East Technical University, 2009. Software engineering, human computer interaction, instructional technology, distance education, instructional systems design, introduction to programming, multimedia.

Robin Ann Martin, Assistant Professor
Ph.D., Curriculum and Instruction, Iowa State University, 2003. Educational psychology, curriculum development, instructional design, learning and development.

Julie Ann Mathews-Aydinli, Assistant Professor
Ph.D., McGill University, 2003. Literacy development, culture and identity in second language reading and writing, literature in the language classroom, curriculum development.

Hande İsil Mengü, Instructor
Ph.D., English Language Teaching, Hacettepe University, 2005.

John O’Dwyer, Assistant Professor
Ph.D., Curriculum and Project-Evaluation, University of Surrey, 2005.

Deniz Ortactepe, Assistant Professor
Ph.D., Curriculum and Instruction, State University of New York, 2011. Second language socialization, professional development of teachers, social identity in ESL/EFL.

Rasim Özyürek, Assistant Professor
Ph.D., Turkish Language Teaching, Baku State University, 1998.

Lori Rae Russell-Dağ, Instructor (on leave)
M.S., Computer Engineering, Atılım University, 2006. Object oriented programming, database management systems, computer applications.

Elif Şen, Instructor
Ph.D., English Language Teaching, Middle East Technical University, 2002. English language teacher training, curriculum development, discourse analysis.

Sibel Uğurlubilek, Instructor

Hülya Yavuz, Assistant Professor
Ph.D., Educational Sciences, Middle East Technical University, 1991. Computer aided education, curriculum development, mathematics education.

Daryl York, Lecturer
M.Sc., English Language Teaching, Aston University, 1997. School management, curriculum development, discourse analysis.

PART-TIME ACADEMIC STAFF

Özgür Bayam, B.A., Turkish Language and Literature, Hacettepe University, 1993. Turkish language and literature teaching.
Lynn Çetin, Ph.D., English Language Teaching, Middle East Technical University, 2011. Curriculum development and evaluation, English teacher education


Gül Uluğtekin, Ph.D., Turkish Literature, Bilkent University, 2010. Comparative literature, literary theory and criticism.
DEPARTMENT OF COMPUTER AND INSTRUCTIONAL TECHNOLOGY TEACHER EDUCATION


The program for Computer and Instructional Technology Teacher Education is designed to prepare well-qualified K-12 teachers, instructional technologists and computer science professionals to address and support the need for modernization in education through the meaningful and innovative integration of technology in formal and informal learning environments.

The program develops in students' technical skills required in today's modern classrooms and equips students with a strong background in both educational theories and computer science concepts. The program fosters students' development as whole persons through authentic activities, internships and community service projects where they start gaining valuable experience early in the program. During later semesters, as pre-service teachers, they spend one day per week in partner schools where they gain practical experience in up-to-date approaches to teaching.

The courses are a combination of theory and laboratory practice in up to date lab facilities. The curriculum is designed to equip students with strong problem solving abilities, critical thinking abilities and skills for lifelong learning which is achieved through collaborative project work, case studies, problem solving tasks, critiques and demonstrations.

CURRICULUM OF FOUR-YEAR B.A. PROGRAM

FIRST YEAR

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<thead>
<tr>
<th>Autumn Semester</th>
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<tr>
<td>CTE 111 Introduction to Programming I</td>
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<td>CTE 113 Information Technologies in Education I</td>
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<td>CTE 115 Discrete Mathematics</td>
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<td>ENG 101 English and Composition I</td>
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<td>GE 100 Orientation</td>
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<td>TURK 101 Turkish I</td>
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<td>CTE 114 Information Technologies in Education II</td>
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<tr>
<td>ENG 102 English and Composition II</td>
<td>3 / 6</td>
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<tr>
<td>MATH 105 Introduction to Calculus I</td>
<td>4 / 7</td>
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<tr>
<td>TE 116 Introduction to Education Science</td>
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<td>TURK 102 Turkish II</td>
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SECOND YEAR

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<tr>
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<tr>
<td>CTE 205 Computer Organization</td>
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<td>CTE 211 Programming Languages I</td>
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<tr>
<td>GE 250 Collegiate Activities Program I</td>
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<tr>
<td>HIST 200 History of Turkey</td>
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<tr>
<td>PHYS 117 Basic Physics: Mechanics</td>
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<td>TE 203 Educational Psychology</td>
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<tr>
<td>TE 207 Introduction to Curriculum</td>
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<td>Social Science Elective</td>
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<td>CTE 212 Programming Languages II</td>
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<td>CTE 216 Introduction to Web Technologies</td>
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<td>CTE 218 Operating Systems</td>
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<td>CTE 252</td>
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<td>GE 251</td>
<td>Collegiate Activities Program II</td>
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<td>PHYS 118</td>
<td>Basic Physics II</td>
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<td>TE 204</td>
<td>Principles and Methods of Instruction</td>
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### Third Year

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<td>CTE 309</td>
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<td>CTE 311</td>
<td>Database Management Systems</td>
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<tr>
<td>CTE 317</td>
<td>Programming for the Internet I</td>
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<tr>
<td>CTE 321</td>
<td>Human Computer Interaction</td>
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<td>CTE 351</td>
<td>Material Design and Development in Education</td>
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### Spring Semester

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### Fourth Year

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<td>CTE 400</td>
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<tr>
<td>CTE 403</td>
<td>Research Methods in Education</td>
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<tr>
<td>CTE 417</td>
<td>Programming for the Internet II</td>
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<tr>
<td>CTE 421</td>
<td>Project Management and Development I</td>
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<td>TE 402</td>
<td>Guidance</td>
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<td>TE 405</td>
<td>Computer Teaching Methods II</td>
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### Spring Semester

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### HCIV Elective Courses

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<tr>
<td>HCIV 102</td>
<td>History of Civilization II</td>
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### CTE Elective Courses

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<td>COMD 203</td>
<td>Introduction to Communication Studies I</td>
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<td>COMD 204</td>
<td>Introduction to Communication Studies II</td>
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<tr>
<td>COMD 205</td>
<td>Basic Photography</td>
<td>3 / 6</td>
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<tr>
<td>COMD 206</td>
<td>Introduction to Digital Cinematography</td>
<td>3 / 6</td>
</tr>
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<td>COMD 207</td>
<td>Film History</td>
<td>3 / 6</td>
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<tr>
<td>COMD 210</td>
<td>Introduction to Screenwriting</td>
<td>3 / 6</td>
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<td>COMD 305</td>
<td>Digital Video Production I</td>
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<td>COMD 310</td>
<td>Screenwriting</td>
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<td>COMD 321</td>
<td>Analysis of Moving Image</td>
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<td>COMD 322</td>
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<td>COMD 341</td>
<td>Media and Society</td>
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<td>COMD 342</td>
<td>Popular Culture</td>
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COMD 431 Global Communications .................................................................. 3 / 6
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COMD 433 Gender and Media ......................................................................... 3 / 6
COMD 434 Special Topics in Journalism .......................................................... 3 / 6
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COMD 436 Television Genres .......................................................................... 3 / 6
COMD 437 Post-production Techniques ............................................................ 3 / 6
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COMD 462 Special Topics in Advertising .......................................................... 3 / 6
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COMD 513 Film and Genre ............................................................................. 3 / 7.5
COMD 514 Identity Space and Image ............................................................... 3 / 7.5
COMD 515 Media Reception ......................................................................... 3 / 7.5
COMD 516 Turkish Cinema and Modernity ....................................................... 3 / 7.5
COMD 517 Topics in Media Studies ................................................................. 3 / 6
COMD 518 New Media and Film Cultures ....................................................... 3 / 6
COMD 521 Body Movement and Vision in Immersive and Interactive Media I 3 / 7.5
COMD 522 Body Movement and Vision in Immersive and Interactive Media II 3 / 7.5
COMD 523 Media and Everyday Life ............................................................... 3 / 7.5
COMD 531 Science and Media ....................................................................... 3 / 7.5
COMD 541 Writing for Media ......................................................................... 3 / 7.5
COMD 566 Documentary Form and Practice ............................................... 3 / 7.5
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CTE 502 Foundations of Distance Education .................................................. 3 / 5
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CTIS 457 Selected Topics in Information Systems II ....................................... 3 / 6
CTIS 483 Database Administration .................................................................. 3 / 6
CTIS 484 Advanced Topics in Programming .................................................. 3 / 6
CTIS 485 Information Storage and Management .......................................... 3 / 6
CTIS 486 Linux System Administration ............................................................ 3 / 6
CTIS 487 Mobile Application Development .................................................... 4 / 7
CTIS 488 Data Analysis .................................................................................. 3 / 6
CTIS 489 Interactive Computer Graphics Programming .................................... 3 / 6
CTIS 490 Distributed Systems ....................................................................... 3 / 6
CTIS 491 Software Validation Verification and Testing .................................... 3 / 6
CTIS 492 Information Systems Outsourcing ..................................................... 3 / 6
CTIS 493 Information Systems Project Management ....................................... 3 / 6
CTIS 494 Software Quality Assurance ......................................................... 3 / 6
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CTIS 496 Data Security in Computing .............................................................. 3 / 6
CTIS 497 LAN Switching and Wireless Networks ......................................... 3 / 6
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COURSE DESCRIPTIONS

UNDERGRADUATE COURSES

CTE 111 Introduction to Programming I
An introduction to programming using problem solving strategies. Theoretical principles and phases of problem solving. Basic properties of algorithms. Top down design. Structured programming techniques will be introduced using the C language. Topics include data representation, simple arithmetic expressions, basic problem solving concepts: selection and repetition, arrays, functions and modular programming, program testing and debugging. 
Credit units: 5 ECTS Credit Units: 10. Aut (R. Ayfer)

CTE 112 Introduction to Programming II

CTE 113 Information Technologies in Education I
An introduction to computers and computer applications. This course aims to familiarize the students with the basic terminology and skills needed to use a computer efficiently. Course topics include computer structure and terminology, the Internet, operating systems (Unix, DOS, and Windows). Applications covered include word processing, presentation, spreadsheet and databases applications. Students work with widely used application packages, MS Word, PowerPoint, Excel and Access.
Credit units: 4 ECTS Credit Units: 5. Aut (S. Uğurlubilek)

CTE 114 Information Technologies in Education II
This course is designed to introduce students to the fundamentals of the usage of the internet in education. Students will gain knowledge of the requirements of successful internet applications in different aspects of education, and become familiar with existing educational internet applications. The course includes an introduction to relevant educational topics. Following this, topics include internet applications used in education, such as blogs, forums and wikis. Students have the opportunity to apply the technologies in an educational context. 
Credit units: 4 ECTS Credit Units: 4. Spr (C. Kızılduman Yazıçı)

CTE 115 Discrete Mathematics
The aim of this course is to develop logical reasoning ability of students. Topics include: elements of logic, set theory and operations on sets; DeMorgan's rules, finite and infinite. Relations and functions. Logic circuits. Induction and recursion, pigeonhole principle. Permutations, combinations and probabilit of discrete events. Graphs and their representation in computing.
Credit units: 3 ECTS Credit Units: 5. Aut (H. Yavuz)

CTE 191 Information and Communication Technology
This course aims to provide students with the ICT skills required for success in their academic and professional lives. The course covers basic concepts of information technology, Internet and web concepts, and the use of word processing, spreadsheet, and presentation software. At the end of the course, students should be able to effectively search for information using Internet, library and online database search tools, prepare professional and well formatted documents, prepare well-organized, professional presentations using presentation software, use spreadsheet tools to create charts and prepare spreadsheets that use basic formulas and functions. The course will include project-based assignments to give students hands on experience with various applications.
Credit units: 3 ECTS Credit Units: 6. Aut (H. Yavuz) Spr (H. Yavuz)

CTE 201 Programming Languages I
This course is designed as a first introduction to object-oriented design and programming concepts. Object-oriented concepts are taught using the Java programming language. The course teaches the fundamental concepts of OOP, including classes and objects, encapsulation, inheritance, polymorphism, interfaces and abstract classes. Important Java packages, classes, file and database access and GUI design are also included.
Credit units: 4 ECTS Credit Units: 8. Prerequisite: CTE 102.

CTE 202 Programming Languages II
The concept of object-oriented and event-driven programming. Designing effective GUIs using Visual Basic. Database access, the use of object linking and embedding.
Credit units: 4 ECTS Credit Units: 8. Prerequisite: CTE 201. Aut (S. Koçberber)
CTE 203 Data Structures

CTE 205 Computer Organization

CTE 208 System Analysis and Design
The course presents a comprehensive introduction to the systems design skills in information engineering. It provides the students with the skills to identify business problems which may be solved by technology-based solutions, and determine requirements for information systems solutions. The course includes Systems Development Life Cycle (SDLC), Systems Analysis and Design Techniques (DFDs, Logical Modeling, E-R Diagrams, Object Oriented Modeling), review of Unified Modeling Language (UML), Project Management tools (CPM, GANTT, PERT), verification, validation and configuration management and evaluation of engineering standards such as MIL-STD-498, IEEE/EIA 12207 and ISO 9000-2000. Credit units: 3 ECTS Credit Units: 6, Aut (C. Kölür)

CTE 211 Programming Languages I
This course is designed as a first introduction to object-oriented design and programming concepts. Object-oriented concepts are taught using the Java programming language. The course teaches the fundamental concepts of OOP, including classes and objects, encapsulation, inheritance, polymorphism, interfaces and abstract classes. Important Java packages, classes, file and database access and GUI design are also included. Credit units: 5 ECTS Credit Units: 7, Prerequisite: CTE 112. Spr (L. R. Russel-Dağ)

CTE 212 Programming Languages II
The concept of object-oriented and event-driven programming. Designing effective GUIs using Visual Basic. Database access, the use of object linking and embedding. Credit units: 4 ECTS Credit Units: 6, Prerequisite: CTE 112. Aut (S. Koçberber)

CTE 214 Operating Systems
The course is designed to provide the fundamentals of operating systems and an introduction to the internal operations of modern operating systems (OS). Topics include: history and basic OS concepts, process management, memory management, file systems, input/output management, operating system security and protection and support for distributed systems. Also covered is the UNIX environment and shell scripts. Lab sessions: Unix/Linux Administration. Credit units: 3 ECTS Credit Units: 6, Prerequisite: CTE 205.

CTE 216 Introduction to Web Technologies
The aim of this course is to provide students with skills necessary to construct well-designed web sites. The course provides an introduction to basic web design and implementation topics to create professional looking web pages. Topics include an introduction to HTTP and CGI web protocols, HTML, XHTML, cascading style sheets, coding standards and techniques accepted by popular Web browser programs, template development, principles of web page design and the implementation of web pages using web authoring tools. Credit units: 3 ECTS Credit Units: 5. Aut (S. Üğürülbilek)

CTE 218 Operating Systems
The course is designed to provide the fundamentals of operating systems and an introduction to the internal operations of modern operating systems (OS). Topics include: history and basic OS concepts, process management, memory management, file systems, input/output management, operating system security and protection and support for distributed systems. Also covered is the UNIX environment and shell scripts. Lab sessions: Unix/Linux Administration. Credit units: 4 ECTS Credit Units: 5, Prerequisite: CTE 205. Spr (S. Üğürülbilek)

CTE 252 Instructional Design
Principles and models of instructional design. Issues, concepts, and philosophical considerations behind uses of technology in education, with particular emphasis on teacher training resources. Analysis of content, learner, and resources. Selecting instructional objectives and sequencing instruction. Credit units: 3 ECTS Credit Units: 4, Spr (C. Kültür)

CTE 302 Internet Applications in Education
This course is designed to introduce students to the fundamentals of the usage of the internet in education. Students will gain knowledge of the requirements of successful internet applications in different aspects of education, and become familiar with existing educational internet applications. The course includes an introduction to relevant educational topics. Following this, topics include internet applications used in education, such as course management systems, web quests, blogs and wikis. Students have the opportunity to apply the technologies in an educational context. Credit units: 3 ECTS Credit Units: 6, Prerequisite: CTE 104. Spr (C. Kizilduman Yaziçi)
CTE 308  Information Ethics and Security
Introduction to ethics and security in computer science. Topics include historical milestones; information ethics: privacy and anonymity, computer crime and malware, professional responsibility, intellectual property. Legal and licensing issues, licensing models, usability and authentication, security auditing. Credit units: 3 ECTS Credit Units: 4. Aut (R. Ayfer)

CTE 309  Community Service
This course aims to expose students to volunteer services in order to increase their awareness of the importance of volunteer work, and to gain hands-on volunteer experience. As part of the course, students will be expected to research and assess the needs of the community and, in doing so, participate in projects to gather information, develop community contacts, view ideas from different perspectives, and formulate solutions. To fulfill course requirements, students will be expected to participate in at least one volunteer project in the community. In addition, students will be expected to attend conferences, seminars, panels, participate in organizing activities, and work as members of related student clubs. Credit units: 3 ECTS Credit Units: 4. Aut (S. Uğurülbilek)

CTE 311  Database Management Systems
DBMS concepts, definitions, specifications and objectives. Topics include relational data model, SQL as a data manipulation language. Data base design considerations (ER Diagrams and normalization), concurrency control mechanisms, crash recovery concepts and an overview of current trends. Lab sessions include hands-on experience using SQL, creating applications with a widely used database package. Credit units: 4 ECTS Credit Units: 5. Prerequisite: CTE 218. Aut (F. Yüreğüren)

CTE 312  International Term Project
The ability to work with colleagues from other cultures and to work on international projects are key assets in today's job market. The centerpiece of this course is a real-world computing project that students develop in cooperation with peers from an institution of higher education in a foreign country. Exposes students to the procedures and complexities of working on projects that span many time zones and cultures. Additionally, students examine the use and impact of computing in a global community. Student will work in teams, to analyze, design and develop a software solution for a selected non-governmental organization (NGO). Students from the partner institute will visit Bilkent with their supervisor twice during the semester for face to face meetings. Credit units: 3 ECTS Credit Units: 5. Spr (L. Russell-Çağ)

CTE 314  Communications Skills
This course is designed to provide students with an understanding of the discipline of communication skills and to allow them to gain experience in interpersonal, small group and mass communication. After taking this course, students should be able to recognize and evaluate communication skills, improve discussions and writing skills, adapt communication skills to the demands of particular communication situations, learn how major elements of culture influence communication and develop an understanding of the intercultural communication process. Credit units: 3 ECTS Credit Units: 5.

CTE 316  Network Structures and Communication
The course aims to provide information about the fundamentals of data communications and contemporary computer network principles and applications. Topics include general information about networking terminology: ISO 7 layers, physical connections, switching and dedicated connection, packet switching vs. session switching, topologies, transmission protocols, routing, peer networks vs. client-server networks, services. Lab sessions: Unix/Linux networking. Credit units: 3 ECTS Credit Units: 4. Prerequisite: CTE 218. Aut (İ. Kalender) Spr (İ. Kalender)

CTE 317  Programming for the Internet I
The aim of this course is to provide students with a background in the fundamentals of web-based computing. The course focuses on creating interactive web pages through client-side scripting technologies. Includes a discussion of difference between client-side and server-side technologies, DHTML and Java-scripting techniques will be introduced for use in web based graphical user interface design. Also included are new technologies such as web services, AJAX, XML, XSLT, and RSS. Credit units: 3 ECTS Credit Units: 4. Prerequisite: BIM 242 or CTE 216. Aut (S. Uğurülbilek) Spr (S. Uğurülbilek)

CTE 321  Human Computer Interaction
This course focuses on human computer interaction (HCI) design processes and covers the underlying design principles, user interface design methodology, and the user-interface technologies used to implement HCI. The importance of good interfaces will be discussed and throughout the semester concepts and methods will be introduced. Students will complete small project to gain an understanding of HCI methods and concepts. Credit units: 3 ECTS Credit Units: 4. Prerequisite: (CTE 216 and CTE 211) or (CTE 216 and CTE 212). Aut (C. Kültür)

CTE 322  Multimedia Design and Development
Basic principles of design and development of interactive instructional computer applications. Students will complete several projects utilizing a representative multimedia authoring tool and will create a prototype instructional software. Analysis of teaching-learning process using multi-media techniques in education. Credit units: 3 ECTS Credit Units: 4. Spr (C. Kültür)
CTE 351  Material Design and Development in Education  
Students will focus on using and integrating technology into teaching-learning processes: visual teaching aids, technology integration issues and interactive materials will be covered from an instructional point of view. The production of such materials and the evaluation of these materials when used in teaching are expected from the student teachers.  
Credit units: 3 ECTS  
Credit Units: 4.  
Aut (C. Kızılduman Yazıcı)  
Spr (C. Kızılduman Yazıcı)  

CTE 400  Summer Training  
This course aims to provide students with the opportunity to take part in a professional work environment. This experience will allow for students to obtain a general view of the work environment, and to apply the knowledge and experience gained during their courses to real life problems. As well, students will be exposed to educational topics in technology, both from the technology development and teaching perspective, and may participate in the development of educational tools. Upon completion of the training students will then be able to identify learning objectives in order enable them to effectively utilize their remaining education. This thirty day training period is undertaken during the summer break following the successful completion of the third year.  
Credit units: None  
ECTS Credit Units: None,  
Prerequisite: CTE 211 or CTE 212.  
Aut (S. Uğurlubilek)  

CTE 401  Multimedia Techniques  
Basic principles of design and development of interactive instructional computer applications. Students will complete several projects utilizing a representative multimedia authoring tool and will create a prototype instructional software. Analysis of teaching-learning process using multi-media techniques in education.  
Credit units: 3 ECTS  
Credit Units: 6.  

CTE 403  Research Methods in Education  
This course covers the fundamentals of educational research such as writing research questions, sampling, validity and reliability as well as research methods. Students will have hands on experience in research methods, basic statistics and writing a research proposal.  
Credit units: 3 ECTS  
Credit Units: 6.  

CTE 409  Programming for Education  
Program development for education environment using a visual programming language. Problem analysis and design. Development of effective user interfaces. Effective access methods to databases. Applications with event-driven visual programming languages.  
Credit units: 3 ECTS  
Credit Units: 6.  

CTE 410  Community Service  
This course aims to expose students to volunteer services in order to increase their awareness of the importance of volunteer work, and to gain hands-on volunteer experience. As part of the course, students will be expected to research and assess the needs of the community and, in doing so, participate in projects to gather information, develop community contacts, view ideas from different perspectives, and formulate solutions. To fulfill course requirements, students will be expected to participate in at least one volunteer project in the community. In addition, students will be expected to attend conferences, seminars, panels, participate in organizing activities, and work as members of related students clubs.  
Credit units: 2 ECTS  
Credit Units: 4.  
Aut (S. Uğurlubilek)  

CTE 417  Programming for the Internet II  
The aim of this course is to provide students with an understanding of the fundamentals of web-based computing, web clients and hyper text servers, the CGI standard and CGI programming techniques. Through server-side scripting languages such as PHP students will develop web-applications using accepted techniques and tools and interfacing to popular RDBMS servers.  
Credit units: 3 ECTS  
Credit Units: 6.  
Prerequisite: CTE 111 and CTE 216.  
Aut (İ. Kalender)  

CTE 421  Project Management and Development I  
The course presents a comprehensive introduction to the systems design skills in information engineering that students, as future users or systems analysts, will need to work in a highly competitive computer-integrated business environment. It provides the students with the skills to identify business problems which may be solved by technology-based solutions, and determine requirements for information systems solutions. The course includes Systems Development Life Cycle (SDLC), Systems Analysis and Design Techniques (DFDs, Logical Modeling, E-R Diagrams, Object Oriented Modeling), review of Unified Modeling Language (UML), Project Management tools (CPM, GANTT, PERT) and evaluation of engineering standards such as MIL-STD-498, IEEE/EIA 12207 and ISO 9000-2000.  
Credit units: 3 ECTS  
Credit Units: 6.  
Aut (C. Kültür)  

CTE 422  Project Management and Development II  
Students will be working as small teams under close supervision of a faculty member to produce a software system for educational purposes, or develop an “instructional system design” as a solution to an education related problem. Knowledge, structures, principles and methods from computer and/or education related courses from previous semesters will be used during the specification, analysis, design, development implementation, and evaluation phases of the project. Students’ projects will be reviewed by a faculty committee.  
Credit units: 4 ECTS  
Credit Units: 8.  
Prerequisite: CTE 421.  
Aut (S. Uğurlubilek)  
Spr (L. R. Russell-Dağ)
GRADUATE COURSES

CTE 502  Foundations of Distance Education
This course covers the historical development of distance education, uses of distance education and technologies used within distance education. Students will be involved in instructional design to build a leaving architecture for a purely online course as their final project. Credit units: 3 ECTS Credit Units: 5. Aut (C. Kizilduman Yazıcı)

CTE 504  Material Design and Development
Students will focus on using and integrating technology into teaching-learning processes: visual teaching aids, technology integration issues and interactive materials will be covered from an instructional point of view. The production of such materials and the evaluation of these materials when used in teaching are expected from the student teachers. Credit units: 3 ECTS Credit Units: 5. Spr (C. Kizilduman Yazıcı)
The Curriculum and Instruction programs offered in the Graduate School of Education include in-service MA and PhD programs aimed at practising teachers. By providing higher degrees in Curriculum and Instruction, we are able to include in our in-service programs educators and teachers from all subject areas at all levels of educational institutions, from primary school to university level. We also offer a pre-service Master’s Curriculum and Instruction program combined with a Teaching Certificate (CITE) for graduates who wish to train as teachers in high schools.

Curriculum and Instruction is regarded as one of the major areas of education. It embraces all aspects of the teaching and learning which occurs in schools, both in the formal curriculum and the wider aspects of extra-curricular activities. Curriculum and Instruction is concerned with the foundations of school practice and improvement. It includes curriculum planning and development, implementation and evaluation, methods of instruction and learning, instructional leadership, international perspectives on curricula, managing the learning environment, and assessing student learning and progress. Curriculum issues raised during the study lend themselves to critical enquiry, discussion, interpretation, and reflection.

**Master of Arts in Curriculum and Instruction**

The program is designed for school teachers with at least two years teaching experience. They may be in positions of middle management, or intending shortly to move to such positions, and thus become educational leaders. It will enable participants to develop the knowledge and skills to improve their own practice and assist in the professional development of colleagues within their area. Those seeking positions of responsibility in a school will be able to offer an extended informed theoretical and practical background of relevance to their duties in such positions from their masters studies.

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CI 611  Issues and Trends in Education  

Master of Arts in Curriculum and Instruction with Teaching Certificate

The two-year program in teacher education at Bilkent University Graduate School of Education awards a Masters degree in Curriculum and Instruction, together with a Teaching Certificate which qualifies graduates to teach in high schools. The courses to be followed include the formation courses laid down by the Higher Education Council (YOK) for qualified teacher status, further courses in education, and a thesis. Strong emphasis is given to international dimensions, including the International Baccalaureate and IGCSE curricula. Graduates also receive an IB Teacher Award, following recognition of the program by the International Baccalaureate Organisation.

Currently, the Graduate School of Education accepts students in four subject areas: Turkish Language and Literature, English, Biology, and Mathematics.

A strong feature of the program is students’ experience in schools. Each semester students have an internship in leading high schools in Ankara, Istanbul and Izmir, observing classes and teaching. In addition they have a five-week internship at Cambridge University and schools in England. The teacher education courses of the program cover the required educational knowledge and skills. Subject-area and liberal arts courses broaden and extend students’ understanding of their subject area and educational philosophy.

CURRICULUM

<table>
<thead>
<tr>
<th>Courses</th>
<th>Credits / ECTS Credits</th>
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<tbody>
<tr>
<td>CI 507</td>
<td>Educational Research 3 / 6</td>
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<tr>
<td>CI 509</td>
<td>Thesis Seminar I 3 / 6</td>
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<tr>
<td>CI 511</td>
<td>Curriculum in an International Context 3 / 6</td>
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<tr>
<td>CI 512</td>
<td>Written Academic Discourse I 3 / 6</td>
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<tr>
<td>CI 513</td>
<td>Statistics 3 / 6</td>
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<tr>
<td>CI 514</td>
<td>Curriculum Development and Evaluation 3 / 6</td>
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<tr>
<td>CI 515</td>
<td>Trends and Issues in Instruction and Assessment 3 / 6</td>
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<tr>
<td>CI 522</td>
<td>Written Academic Discourse II 3 / 6</td>
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<td>CI 599</td>
<td>Master’s Thesis 3 / 6</td>
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<td>GE 590</td>
<td>Academic Practices 3 / 6</td>
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<td>PHIL 521</td>
<td>History of Political and Educational Philosophy 3 / 6</td>
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RESTRICTED ELECTIVES

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<tr>
<td>BTE 501</td>
<td>Biology Curriculum Review I 3 / 6</td>
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<tr>
<td>ETE 503</td>
<td>English Curriculum Review 3 / 6</td>
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<tr>
<td>MTE 501</td>
<td>Mathematics Curriculum Review I 3 / 6</td>
</tr>
<tr>
<td>TE 529</td>
<td>Turkish Language and Literature Curriculum Review 3 / 6</td>
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BIOLOGY TEACHING CERTIFICATE

FIRST YEAR

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<tr>
<th>Autumn Semester</th>
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<tbody>
<tr>
<td>TE 509</td>
<td>Developmental Psychology 2 / 4</td>
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<tr>
<td>TE 510</td>
<td>Curriculum and Instruction 2 / 4</td>
</tr>
<tr>
<td>TE 519</td>
<td>Classroom Management 2 / 4</td>
</tr>
<tr>
<td>TE 528</td>
<td>Introduction to Educational Science 2 / 5</td>
</tr>
<tr>
<td>TE 532</td>
<td>Biology Teaching Methods I 3 / 6</td>
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<tr>
<td>TE 552</td>
<td>School Experience I in Biology 3 / 6</td>
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<tr>
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<tr>
<td>MBG 452</td>
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<td>Measurement and Evaluation 2 / 4</td>
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<tr>
<td>TE 520 Instructional Technology and Material Design</td>
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<tr>
<td>TE 525 Learning and Teaching: Theory and Approach</td>
<td>2 / 4</td>
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<tr>
<td>TE 542 Biology Teaching Methods II</td>
<td>3 / 6</td>
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<td>TE 562 School Experience II in Biology</td>
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**SECOND YEAR**

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<tr>
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<td>TE 572 Teaching Practice in Biology</td>
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<tbody>
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<tr>
<td>TE 524 Guidance</td>
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**ENGLISH TEACHING CERTIFICATE**

**FIRST YEAR**

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<td>TE 509 Developmental Psychology</td>
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<td>TE 510 Curriculum and Instruction</td>
<td>2 / 4</td>
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<td>TE 519 Classroom Management</td>
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<td>TE 528 Introduction to Educational Science</td>
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<tr>
<td>TE 531 English Teaching Methods I</td>
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<td>ETE 504 Literature for Young Learners</td>
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<td>TE 518 Measurement and Evaluation</td>
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<tr>
<td>TE 525 Learning and Teaching: Theory and Approach</td>
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<tr>
<td>TE 541 English Teaching Methods II</td>
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**SECOND YEAR**

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**MATHEMATICS TEACHING CERTIFICATE**

**FIRST YEAR**

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<td>TE 509 Developmental Psychology</td>
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<td>TE 510 Curriculum and Instruction</td>
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<td>TE 535 Mathematics Teaching Methods I</td>
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<td>MTE 503 Computer Technology in Mathematics Education</td>
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<td>TE 525 Learning and Teaching: Theory and Approach</td>
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Autumn Semester

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Spring Semester

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</table>

TURKISH LANGUAGE AND LITERATURE TEACHING CERTIFICATE

FIRST YEAR

Autumn Semester

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<td>Curriculum and Instruction</td>
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<td>TE 519</td>
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<td>TE 533</td>
<td>Turkish Language Teaching Methods</td>
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<td>TE 553</td>
<td>School Experience I in Turkish Language and Literature</td>
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Spring Semester

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<th>Credits / ECTS Credits</th>
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<td>TE 520</td>
<td>Instructional Technology and Material Design</td>
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<tr>
<td>TE 525</td>
<td>Learning and Teaching: Theory and Approach</td>
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<tr>
<td>TE 527</td>
<td>Literary Text Review in Teaching Literature</td>
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<td>Turkish Literature Teaching Methods</td>
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SECOND YEAR

Autumn Semester

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Spring Semester

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<tr>
<td>TE 524</td>
<td>Guidance</td>
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Doctor of Philosophy in Curriculum and Instruction

The PhD in Curriculum and Instruction is for professional practitioners in education, including school teachers, who wish to continue their education while still working as educators. It is designed for practising educators with at least four years of teaching experience.

The program enables participants to develop knowledge and skills both to extend their own practice and also assist in the professional development of colleagues within their area. It expects participants to contribute to the advancement of knowledge and methods of enquiry through independent and original research, allowing them to make an effective and up-to-date contribution to quality education within the education sectors in Turkey.

Satisfactory completion of a scientific preparatory program is required before starting the PhD program.

CURRICULUM

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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits / ECTS Credits</th>
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<tbody>
<tr>
<td>CI 601</td>
<td>Instruction: Perspectives and Practice</td>
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<tr>
<td>CI 602</td>
<td>Curriculum: Perspectives and Practice</td>
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<tr>
<td>CI 604</td>
<td>Educational Statistics</td>
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<td>CI 605</td>
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<tr>
<td>CI 690</td>
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<tr>
<td>CI 699</td>
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<td></td>
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This course is designed for students at Turkish teaching departments of universities in Turkic states or Turkish communities, and also from other countries. The aim of the course is to enable students to comprehend usage and structural features of the Turkish language; to speak and write Turkish correctly and effectively, to familiarize students with selected works in Turkish and world literature and to increase students’ awareness of the Turkish language. Also included are experiential learning, student participation and effective use of instructional technology through target reading, creative writing, listening and speaking activities. By the end of this course, students will be able to: understand sentences and common expressions used in direct speech, talk about basic developments and practices in teacher education. Credit units: 3 ECTS Credit Units: 4. Aut (R. A. Martin)
topics, express themselves on their hometown, education background, and needs. Credit units: 3 ECTS Credit Units: 6.

**TE 301  Introduction to Educational Science**

**TE 307  Measurement and Evaluation**
Role and significance of measurement and evaluation in education, fundamental concepts of measurement and evaluation, desirable qualities of measurement tools (reliability, validity, practicality), measurement tools used in education and their characteristics. Traditional tools (written examinations, short-answer tests, true-false tests, multiple choice tests, matching, oral examinations, assignments). Tools which assess multiple facets of student performance (observation, interview, performance-based assessment, portfolios, research papers, research projects, peer assessment, self-assessment, attitude scales). Use of basic statistical tools to process the results of assessment, evaluating learner outcomes, grading, development of subject area specific assessment tools. Credit units: 3 ECTS Credit Units: 5. Spr (İ. Kalender)

**TE 310  Computer Teaching Methods I**
The course explores, with practical examples, and with reference to current research, the teaching of computer at 6-12 level. It considers all relevant teaching methods, and their application to a range of teaching/learning contexts. Students will engage in extensive reflection on the methods and applications considered. Credit units: 3 ECTS Credit Units: 4. Spr (A. Ağan)

**TE 311  Teaching Turkish Spoken in Turkey III**
This course is designed for students at Turkish teaching departments of universities in Turkic states or Turkish communities, and also from other countries. The aim of the course is to enable students to comprehend usage and structural features of the Turkish language; to speak and write Turkish correctly and effectively, to familiarize students with selected works in Turkish and world literature, to improve students’ critical and creative expression and to raise students’ awareness of Turkish. Also included are experiential learning, student participation and effective use of instructional technology through target reading, creative writing, listening and speaking activities. By the end of this course, students will be able to: comprehend the content of high level texts and discussions in their subject area, express themselves clearly in a wide range of topics, state their opinion on current topics critically and mention advantages and disadvantages of different options. Credit units: 3 ECTS Credit Units: 6.

**TE 312  School Experience I**
One day a week in a school under the daily supervision of an experienced school teacher who acts as mentor. Students use structured activities which involve lesson observation and interviews to understand the organization and daily work of the school. They analyse particular teaching skills, and consider whole school issues. There is a one-hour seminar which consolidates the work done in school. Credit units: 3 ECTS Credit Units: 4. Spr (E. Çataloğlu) Aut (E. Çataloğlu)

**TE 313  Teaching Turkish Spoken in Turkey IV**
This course is designed for students at Turkish teaching departments of universities in Turkic states or Turkish communities, and also from other countries. The aim of the course is to enable students to comprehend usage and structural features of the Turkish language, to speak and write Turkish correctly and effectively, to familiarize students with selected works in Turkish and world literature, to improve students’ critical and creative expression, to analyze informative and literary texts, to raise students’ awareness of the Turkish language and to train students to suggest and defend their own ideas. Also included are experiential learning, student participation and effective use of instructional technology through target reading, creative writing, listening and speaking activities. By the end of the course, students will be able to: comprehend informative as well as literary texts in various fields and point out hidden meanings, express themselves fluently and use Turkish effectively in daily and business life, and for professional training, understand easily what they listen to or read, summarize information they obtain through verbal or written sources and present them explicitly, discuss the work of poets, writers or critics, ask and answer questions related to personal information, state fine details clearly. Credit units: 3 ECTS Credit Units: 6.

**TE 314  Classroom Management**
TE 318  Turkish Education System and School Management
Aims and basic principles of the Turkish education system. Legal aspects of education. Structure and operation of the Turkish education system. Theories and processes of management. School organization and management. School administration related to staff, students, teaching and management. Community involvement in schools. Credit units: 2 ECTS Credit Units: 3. Aut (H. Yavuz)

TE 402  Guidance
Fundamental concepts, student support services, the role of guidance and counseling in student support services. Principles of guidance, principles and development of guidance, types of guidance and counseling, services, techniques, organization and personnel. Recent developments in the field. Techniques for getting to know students, counselor-teacher cooperation, guidance duties of the teacher. Credit units: 3 ECTS Credit Units: 6. Aut (A. Michou)

TE 405  Computer Teaching Methods II
Continuation of Computer Teaching Methods I. Further understanding of the teaching and learning methods with may be used with different groups of school students, and of the context in which learning is set. Further practical applications including microteaching (Preparing lesson plans and teaching materials on selected topics from school curricula, teaching in the classroom environment, evaluating teaching according to the computer teacher competencies). Credit units: 3 ECTS Credit Units: 6. Aut (E. Çataloğlu) Spr (A. Ateskan)

TE 406  Teaching Practice in Computer Teaching
Students spend one or two days a week in a school, under the supervision of their school mentor and faculty supervisor. They work with teachers, they attend meetings and extra-curricular activities, they observe lessons, and teach full lessons in the department. There is a two-hour seminar which both assist students in the planning and evaluation of their school work and allows them to share experience. Credit units: 5 ECTS Credit Units: 8. Spr (Staff)

TE 407  School Experience II
One day a week in a school under the daily supervision of an experienced school teacher who acts as mentor. Students use structured activities which involve lesson observation and interviews to understand the organization and daily work of the school. They analyse particular teaching skills, and consider whole school issues. There is a one-hour seminar which consolidates the work done in school. Credit units: 3 ECTS Credit Units: 6.

GRADUATE COURSES

TE 501  Introduction to Teaching Profession
Characteristics and principles of the teaching profession. The school as an organization. Management, leadership and decision-making in schools. School effectiveness and school improvement. Sociological, psychological and philosophical foundations of educational practice. Classroom and school environments. The curriculum. Learning theories. Domains of learning. The Turkish educational system, its history and current policies. Credit units: 3 ECTS Credit Units: 5.

TE 502  Development and Learning
Physical, cognitive, psychological and social development of the individual. Learning theories and development. Application of learning theories to educational issues. Analysis of educational research with reference to the classroom and teaching/learning activities, the design of effective instruction. Credit units: 3 ECTS Credit Units: 5. Aut (A. Michou) Spr (R. A. Martin)

TE 503  Classroom Management
Classroom organization for effective learning. Development and implementation of effective systems for classroom management to maximize learning. Social and psychological factors which determine or affect students’ attitudes, motivation and behavior in schools. Group interactions. Behavioral problems. Techniques for meeting the needs of individual learners. The analysis of events and critical incidents in the classroom. Credit units: 3 ECTS Credit Units: 7. Aut (M. K. Sands)

TE 504  Educational Technology and Materials Development
The use of technology in teaching: computers, visual teaching aids, and all other interactive materials. The production of such materials by student teachers, and the evaluation of these materials when used in teaching. Credit units: 3 ECTS Credit Units: 8.

TE 505  Guidance
General principles of guidance and counseling in schools. Nature and objectives of guidance services, and their role in education. Procedures to be observed. Special education: the special needs of individual school students, their assessment, and the education of students with such needs. Credit units: 3 ECTS Credit Units: 6. Aut (A. Michou)

TE 506  Planning and Assessment in Teaching
Concepts, processes and principles of curriculum planning and program development. Production of annual, unit and daily plans. Teaching methods and strategies, and the selection of appropriate teaching materials. Introduc-
tion to the field of assessment and testing, theoretical background, and practice in test and item construction. Functions and uses of assessment. Credit units: 3 ECTS Credit Units: 6. Spr (I. Kalender)

TE 509 Developmental Psychology

TE 510 Curriculum and Instruction
Basic concepts. Theoretical foundations of curriculum development in education (historical, philosophical, psychological and social foundations). Curriculum design in education and models. The process of curriculum development (planning, preparing a proposal, piloting and evaluating, ensuring continuity) Instructional principles. Importance and benefits of studying regularly and methodically. Planning instruction (unit by unit yearly plans, sample daily plans and activities). Instructional methods and techniques, and their delivery. New trends in education and instruction (for example, effective learning, multiple intelligences, constructivism, lifelong learning, creative thinking). Duties and responsibilities of teachers in improving the quality of teaching. Credit units: 2 ECTS Credit Units: 4. Aut (R. A. Martin)

TE 518 Measurement and Evaluation
Role and significance of measurement and evaluation in education, fundamental concepts of measurement and evaluation, desirable qualities of measurement tools (reliability, validity, practicality), measurement tools used in education and their characteristics. Traditional tools (written examinations, short-answer tests, true-false tests, multiple choice tests, matching, oral examinations, assignments). Tools which assess multiple facets of student performance (observation, interview, performance-based assessment, portfolios, research papers, research projects, peer assessment, self-assessment, attitude scales). Use of basic statistical tools to process the results of assessment, evaluating learner outcomes, grading, development of subject area specific assessment tools. Credit units: 2 ECTS Credit Units: 4. Spr (A. Ayas)

TE 519 Classroom Management
Fundamental concepts of classroom management, classroom communication and interactions. Definition of classroom management, various aspects of classroom management other than discipline. External and internal factors affecting the classroom climate. Models of classroom management, development and implementation of classroom rules. The physical arrangement of the classroom. Managing undesirable behavior, time management, class organization, developing a class environment conducive to learning (cases and suggestions). Credit units: 2 ECTS Credit Units: 4. Aut (M. K. Sands)

TE 520 Instructional Technology and Material Design
Concepts of instructional technology, characteristics of various types of instructional technology. Role and use of instructional technology in teaching, identification of technology needs in the classroom/school. Appropriate planning and management of the use of technology. Using technology to develop 2-D and 3-D materials, developing teaching tools (worksheets, activities, OHP transparencies, slides, visual media tools such as DVD, VCD and computer based tools). Analyzing educational software, evaluating teaching tools of varying quality. Internet and distance education, principles of visual design, research pertaining to the effectiveness of teaching materials. The state of instructional technology for teaching in Turkey and the wider world. Credit units: 3 ECTS Credit Units: 6. Spr (A. Ates Ëkan)

TE 524 Guidance
Fundamental concepts, student support services, the role of guidance and counseling in student support services. Principles of guidance, principles and development of guidance, types of guidance and counseling, services, techniques, organization and personnel. Recent developments in the field. Techniques for getting to know students, counselor-teacher cooperation, guidance duties of the teacher. Credit units: 2 ECTS Credit Units: 6. Spr (A. Michou)

TE 525 Learning and Teaching: Theory and Approach
Fundamental concepts (theory, principles, law, methods, techniques, strategies, tactics, styles, models and approaches). Theories of learning and teaching, deductive and didactic theories of teaching, theorists in the field, moving from method to strategy. Learning strategies, classifications of learning strategies. Teaching strategies, classifications of teaching strategies, style-strategy interaction, learning-teaching styles and style-centered teaching design. Examples of practical strategies for the provision of effective teaching, approaches such as problem-based learning, project-based learning, story-based learning, scenario-based learning, practical applications. Credit units: 2 ECTS Credit Units: 4. Spr (R. A. Martin)

TE 526 Subject Area Research Project
Preparing an academic research project on a topic chosen from the student's subject area. Data collection, data analysis, evaluation, writing up and presentation. Credit units: 3 ECTS Credit Units: 7.
TE 527  Literary Text Review in Teaching Literature
The evolution of science from ancient Near-Eastern civilizations to the present-day. Science in the Ionian-Hellenic and the Islamic-Turk periods (Arab, Horasan; Selcuk, Andalucian and Ottoman). The development of astronomy, mathematics, physics, medicine, biology and other branches of science both during these periods and from the Renaissance to the present. The science and technology revolution of the 20th Century.  Credit units: 3 ECTS Credit Units: 6. Spr (G. Uluğbek)

TE 528  Introduction to Educational Science
Basic concepts in education. Relationship of education to other disciplines (the philosophical, social, legal, psychological, economic and political foundations of education). History of educational science. Major trends in educational science in the 21st century; Research methods in educational science. Structure and characteristics of the Turkish Education System. Role of teachers in education. Characteristics of the teaching profession. Developments and practices in teacher education. Credit units: 2 ECTS Credit Units: 5. Aut (E. Çataloğlu)

TE 529  Turkish Language and Literature Curriculum Review
This course provides students with knowledge and experience to assist them to become effective Turkish Language and Literature (TLL) teachers. The major areas of TLL taught in school will be reviewed in detail and related to high school curriculum and demands made on high school teachers and students. The skills covered include knowledge of the appropriate level of subject area content and relevancy, together with a working knowledge of school TLL text books, and the application of these skills in the classroom. National, IB and IGCSE curricula will be discussed. Credit units: 3 ECTS Credit Units: 8. Aut (Ö. Bayam)

TE 531  English Teaching Methods I
The course explores, with practical examples, and with reference to current research, the teaching of English at high school level. It considers all relevant teaching methods, and their application to a range of teaching/learning contexts. Students will engage in extensive reflection on the methods and applications considered. Credit units: 3 ECTS Credit Units: 6. Aut (H. N. Aksit, L. Çetin)

TE 532  Biology Teaching Methods I
The course explores, with practical examples, and with reference to current research, the teaching of biology at high school level. It considers all relevant teaching methods, and their application to a range of teaching/learning contexts. Students will engage in extensive reflection on the methods and applications considered. Credit units: 3 ECTS Credit Units: 6. Aut (J. F. Lane)

TE 533  Turkish Language Teaching Methods
The course explores, with practical examples, and with reference to current research, the teaching of Turkish language at high school level. It considers all relevant teaching methods, and their application to a range of teaching/learning contexts. Students will engage in extensive reflection on the methods and applications considered. Credit units: 3 ECTS Credit Units: 6. Spr (R. Özyürek)

TE 535  Mathematics Teaching Methods I
The course explores, with practical examples, and with reference to current research, the teaching of mathematics at high school level. It considers all relevant teaching methods, and their application to a range of teaching/learning contexts. Students will engage in extensive reflection on the methods and applications considered. Credit units: 3 ECTS Credit Units: 6. Aut (S. Çorlu)

TE 536  Computer Teaching Methods I
The course explores, with practical examples, and with reference to current research, the teaching of computer at 6-12 level. It considers all relevant teaching methods, and their application to a range of teaching/learning contexts. Students will engage in extensive reflection on the methods and applications considered. Credit units: 3 ECTS Credit Units: 6. Spr (A. Ateşkan)

TE 541  English Teaching Methods II
This course is a continuation of TE 531. It continues the developmental work of TE 531 in the teaching of English. Students gain further understanding of the teaching and learning methods which may be used with different groups of students, and of the context in which learning is set. There will be further practical applications and classroom experience. Credit units: 3 ECTS Credit Units: 6. Prerequisite: TE 531. Spr (H. N. Aksit, L. Çetin)

TE 542  Biology Teaching Methods II
This course is a continuation of TE 532. It continues the developmental work of TE 532 in the teaching of biology. Students gain further understanding of the teaching and learning methods which may be used with different groups of students, and of the context in which learning is set. There will be further practical applications and classroom experience. Credit units: 3 ECTS Credit Units: 6. Spr (A. Ateşkan)

TE 543  Turkish Literature Teaching Methods
This course is a continuation of TE 533. It continues the developmental work of TE 533 in the teaching of Turkish language and literature. Students gain further understanding of the teaching and learning methods which may be...
used with different groups of students, and of the context in which learning is set. There will be further practical applications and classroom experience. Credit units: 3 ECTS Credit Units: 6, Prerequisite: TE 533. Aut (G. Uluğtekin)

TE 545 Mathematics Teaching Methods II
This course is a continuation of TE 535. It continues the developmental work of TE 535 in the teaching of mathematics. Students gain further understanding of the teaching and learning methods which may be used with different groups of students, and of the context in which learning is set. There will be further practical applications and classroom experience. Credit units: 3 ECTS Credit Units: 6, Prerequisite: TE 535. Spr (İ. E.Ökbay)

TE 546 Computer Teaching Methods II
Continuation of Computer Teaching Methods I. Further understanding of the teaching and learning methods with may be used with different groups of school students, and of the context in which learning is set. Further practical applications including microteaching (Preparing lesson plans and teaching materials on selected topics from school curricula, teaching in the classroom environment, evaluating teaching according to the computer teacher competencies). Credit units: 3 ECTS Credit Units: 6. Aut (E. Çataloğlu) Spr (A. Ateşkan)

TE 551 School Experience I in English
One day a week in a high school under the daily supervision of an experienced school teacher who acts as mentor. Students use structured activities which involve lesson observation and interviews to understand the organization and daily work of the school. They analyze particular teaching skills, and consider whole school issues. There is a one-hour seminar which consolidates the work done in school. Credit units: 3 ECTS Credit Units: 6. Aut (L. Çetin)

TE 552 School Experience I in Biology
One day a week in a high school under the daily supervision of an experienced school teacher who acts as mentor. Students use structured activities which involve lesson observation and interviews to understand the organization and daily work of the school. They analyze particular teaching skills, and consider whole school issues. There is a one-hour seminar which consolidates the work done in school. Credit units: 3 ECTS Credit Units: 6. Aut (J. F. Lane)

TE 553 School Experience I in Turkish Language and Literature
One day a week in a high school under the daily supervision of an experienced school teacher who acts as mentor. Students use structured activities which involve lesson observation and interviews to understand the organization and daily work of the school. They analyze particular teaching skills, and consider whole school issues. There is a one-hour seminar which consolidates the work done in school. Credit units: 3 ECTS Credit Units: 6. Aut (R. Özyürek)

TE 555 School Experience I in Mathematics
One day a week in a high school under the daily supervision of an experienced school teacher who acts as mentor. Students use structured activities which involve lesson observation and interviews to understand the organization and daily work of the school. They analyze particular teaching skills, and consider whole school issues. There is a one-hour seminar which consolidates the work done in school. Credit units: 3 ECTS Credit Units: 6. Aut (S. Çorlu)

TE 556 School Experience I in Computer Teaching
One day a week in a high school under the daily supervision of an experienced school teacher who acts as mentor. Students use structured activities which involve lesson observation and interviews to understand the organization and daily work of the school. They analyze particular teaching skills, and consider whole school issues. There is a one-hour seminar which consolidates the work done in school. Credit units: 3 ECTS Credit Units: 6. Spr (A. Ateşkan)

TE 561 School Experience II in English
Students spend one day a week in a school, under the daily supervision of their mentor. They teach classes, as well as working on structured activities related to teaching and the school environment. There is a one-hour seminar which consolidates the work done in school. Credit units: 3 ECTS Credit Units: 7, Prerequisite: TE 551. Spr (L. Çetin)

TE 562 School Experience II in Biology
Students spend one day a week in a school, under the daily supervision of their mentor. They teach classes, as well as working on structured activities related to teaching and the school environment. There is a one-hour seminar which consolidates the work done in school. Credit units: 3 ECTS Credit Units: 7, Prerequisite: TE 552. Spr (J. F. Lane)

TE 563 School Experience II in Turkish Language and Literature
Students spend one day a week in a school, under the daily supervision of their mentor. They teach classes, as well as working on structured activities related to teaching and the school environment. There is a one-hour seminar which consolidates the work done in school. Credit units: 3 ECTS Credit Units: 7, Prerequisite: TE 553. Spr (G. Uluğtekin)
**TE 565** School Experience II in Mathematics
Students spend one day a week in a school, under the daily supervision of their mentor. They teach classes, as well as working on structured activities related to teaching and the school environment. There is a one-hour seminar which consolidates the work done in school. **Credit units: 3 ECTS Credit Units: 7, Prerequisite: TE 555. Spr (S. Çorlu)**

**TE 566** School Experience II in Computer Teaching
One day a week in a high school under the daily supervision of an experienced school teacher who acts as mentor. Students use structured activities which involve lesson observation and interviews to understand the organization and daily work of the school. They analyse particular teaching skills, and consider whole school issues. There is a one-hour seminar which consolidates the work done in school. **Credit units: 3 ECTS Credit Units: 6. Aut (E. Çataloğlu) Spr (E. Çataloğlu)**

**TE 571** Teaching Practice in English
Students spend an extended period in a school, under the supervision of their school mentor and faculty supervisor. Students become members of the school for this period. They work with teachers, they attend meetings and extra-curricular activities, they observe lessons, and teach full lessons in the English department. The course includes tutorials and seminars which assist students in the planning and evaluation of their school work and allows them to share experience. **Credit units: 5 ECTS Credit Units: 8. Aut (H. N. Aksit)**

**TE 572** Teaching Practice in Biology
Students spend an extended period in a school, under the supervision of their school mentor and faculty supervisor. Students become members of the school for this period. They work with teachers, they attend meetings and extra-curricular activities, they observe lessons, and teach full lessons in the biology department. The course includes tutorials and seminars which assist students in the planning and evaluation of their school work and allows them to share experience. **Credit units: 5 ECTS Credit Units: 8. Aut (A. Ateşkan)**

**TE 573** Teaching Practice in Turkish Language and Literature
Students spend an extended period in a school, under the supervision of their school mentor and faculty supervisor. Students become members of the school for this period. They work with teachers, they attend meetings and extra-curricular activities, they observe lessons, and teach full lessons in the Turkish department. The course includes tutorials and seminars which assist students in the planning and evaluation of their school work and allows them to share experience. **Credit units: 5 ECTS Credit Units: 8. Aut (R. Özyürek)**

**TE 574** Teaching Practice in History
Students spend an extended period in a school, under the supervision of their school mentor and faculty supervisor. Students become members of the school for this period. They work with teachers, they attend meetings and extra-curricular activities, they observe lessons, and teach full lessons in the history department. The course includes tutorials and seminars which assist students in the planning and evaluation of their school work and allows them to share experience. **Credit units: 5 ECTS Credit Units: 8.**

**TE 575** Teaching Practice in Mathematics
Students spend an extended period in a school, under the supervision of their school mentor and faculty supervisor. Students become members of the school for this period. They work with teachers, they attend meetings and extra-curricular activities, they observe lessons, and teach full lessons in the mathematics department. The course includes tutorials and seminars which assist students in the planning and evaluation of their school work and allows them to share experience. **Credit units: 5 ECTS Credit Units: 8. Aut (S. Çorlu)**

**TE 576** Teaching Practice in Computer Teaching
Students spend an extended period in a school, under the supervision of their school mentor and faculty supervisor. Students become members of the school for this period. They work with teachers, they attend meetings and extra-curricular activities, they observe lessons, and teach full lessons in the English department. The course includes tutorials and seminars which both assist students in the planning and evaluation of their school work and allows them to share experience. **Credit units: 5 ECTS Credit Units: 10. Aut (E. Çataloğlu) Spr (E. Çataloğlu)**

**TE 590** Advanced Teaching Practice
Credit units: None ECTS Credit Units: None, Prerequisite: TE 571 or TE 572 or TE 573 or TE 575. **Spr (M. K. Sands)**

**BTE 501** Biology Curriculum Review I
The major areas of biology will be reviewed in detail for ecology, animal physiology, and biological classification. They will be related closely to the high school curriculum and the demands made on high school teachers and students. Both the Ministry of Education and IGCSE syllabuses will be covered. Students will be required to extended and update their subject knowledge by consideration of the school biology curriculum, advanced level school test questions, and textbooks both in Turkish and English. **Credit units: 3 ECTS Credit Units: 6. Aut (A. Ateşkan)**
MTE 501  Mathematics Curriculum Review I
This course provides students with knowledge and experience to assist them to become effective mathematics teachers. The major areas of mathematics taught in school will be reviewed in detail and related to the high school curriculum, focusing on grade 9 and grade 10. The skills covered include knowledge of the appropriate level of mathematical content and relevancy, together with a working knowledge of school mathematics text books, and the application of these skills in the classroom. National standards in mathematics will be discussed.  
*Credit units: 3 ECTS Credit Units: 8.* Aut (Ü. E. Okbay)

MTE 503  Computer Technology in Mathematics Education
The course will equip student-teachers with the skills to use computer technology to teach secondary mathematic ics. These skills will be used to create lesson plans, classroom demonstrations and teaching/learning materials that clarify topics in the mathematics curriculum. The topics covered will include algebra, geometry, trigonometry, calculus, probability, discrete math, and other areas.  
*Credit units: 3 ECTS Credit Units: 6.* Aut (İ. Kalender)  
Spr (S. Çoluo)

CI 401  Basic Quantitative Concepts and Modeling
Set theory, metric spaces, limits, continuity, functions, derivatives, integral, matrices and basic linear algebraic concepts, mathematical modeling.  
*Credit units: 3 ECTS Credit Units: 6.*

CI 402  Probability Theory
*Credit units: 3 ECTS Credit Units: 6.* Aut (İ. Kalender)

CI 403  Statistics
*Credit units: 3 ECTS Credit Units: 6.*

CI 501  Learning Development and Cultural Context for Teaching
The course will focus on the holistic development of school students in their current cultural context. Topics for study include the development of cognitive abilities, critical, creative, and imaginative thinking, Gardner's multiple intelligences, and cognitive and affective taxonomies. The sociology of educability will be considered: the effect of the family and home environment on a child's development and ability to learn and achieve, as well as the impact of other social factors on development.  
*Credit units: 3 ECTS Credit Units: 6.*

CI 504  Contemporary Issues in Curriculum Development and Evaluation
The course will examine curriculum theory for elementary and high school courses of study. It will consider current trends and issues in curriculum development, the determinants of the curriculum, and conditions for curriculum change. The evaluation of the implementation of new curricula will be included. The role of the teacher, the school, other members of the school community, and the values and attitudes of society, in curriculum implementation will be studied.  
*Credit units: 3 ECTS Credit Units: 6.*

CI 507  Educational Research
The course is designed to introduce key concepts in quantitative and qualitative research in general. It will explore the different research methods used in educational research. Topics will include formulating research questions, reviewing the literature, synthesizing sources, selecting appropriate research designs, sampling, designing valid and reliable instruments for data gathering, and analyzing data. Action research as a qualitative approach to research will be given particular emphasis.  
*Credit units: 3 ECTS Credit Units: 6.* Aut (H. N. Akışt) Spr (H. N. Akışt)

CI 509  Thesis Seminar I
The first seminar of the two thesis seminars is intended to guide the Masters students in their thesis work. Research methods, literature reviews, elaboration of topics, organization of material in relation to each student's research will be discussed, leading to a thorough consideration of, and guidance in, the preparation of the thesis. Students will make presentations of their research to date in order to share their progress and learn from each other.  
*Credit units: None ECTS Credit Units: None.* Aut (H. N. Akışt) Spr (H. N. Akışt)

CI 510  Thesis Seminar II
The second seminar of the two thesis seminars is intended to guide the Masters students in their thesis work. Research methods, literature reviews, elaboration of topics, organization of material in relation to each student's research will be discussed, leading to a thorough consideration of, and guidance in, the preparation of the thesis. Students will make presentations of their research to date in order to share their progress and learn from each other.  
*Credit units: None ECTS Credit Units: None.* Spr (Staff)

CI 511  Curriculum in an International Context
The course examines education, specifically education in schools and the school curriculum, in several countries. In particular, course participants study and compare the International Baccalaureate (IB) system of curricula and
assessment from primary to high school, and the nature and role of international education. Such study includes
the nature of the IB diploma program; planning, teaching and assessing IB courses; together with critical
thinking and the theory of knowledge. The International General Certificate in Secondary Education (IGCSE)
is also considered. International large scale comparative studies are included, particularly the findings from the
Programme for International Student Assessment (PISA). Credit units: 3 ECTS Credit Units: 6. Spr (S. Çörlü,
R. A. Martin)

CI 512 Written Academic Discourse I
The course focuses on developing essential research and language skills. It provides opportunities for partici-
pants to learn the APA system of referencing, analyze research articles, and start preparing the introduction and
literature review sections of their thesis. Credit units: None ECTS Credit Units: None. Spr (R. A. Martin)

CI 513 Statistics
Descriptive statistics; measures of central tendency, measures of variability, measures of relative standing
(percentile, z-scores), graphing data, sampling, point and interval estimation, sampling distributions, hypothesis
testing, one and two sample tests of hypothesis for means (t-tests), introduction to analysis of variance, statistical
software applications. Credit units: 3 ECTS Credit Units: 6. Spr (I. Kalender)

CI 514 Curriculum Development and Evaluation
This course is designed to examine approaches to curriculum development and evaluation. It considers cur-
riculum theorizing, curriculum models and curriculum planning at different levels. The course also provides
evaluation models and techniques to analyze curriculum and its components. Procedures and issues for cur-
riculum development and evaluation, factors that impact curriculum, and curriculum decision making are also
studied. Credit units: 3 ECTS Credit Units: 6. Aut (J. F. Lane)

CI 515 Trends and Issues in Instruction and Assessment
This course will provide participants with an understanding of current trends and issues in instruction and
assessment. It will explore procedures for instructional design, delivery, and evaluation. The course will also
survey current methods and techniques used to assess student performance. Participants will critically reflect
on, and evaluate, current practices and future directions. Credit units: 3 ECTS Credit Units: 6. Aut (A. Ayas)

CI 516 Child and Adolescent Psychology
The course provides an introduction to the milestones of development from childhood through adolescence to
adulthood. It covers developmental research methods, the biological and social contextual contributions to
individual development, and the fundamental theories of cognitive and psychological development (such as
those of Piaget and Erikson). These theories are integrated into a consideration of physical, cognitive, social
and emotional development in childhood and adolescence. Aspects of developmental research which focus on
the implications for parenting and education are discussed. Credit units: 3 ECTS Credit Units: 6.

CI 517 Learning Theories and Practice
The course focuses on theories of human learning and their implications for education, how we develop and
acquire knowledge and skills. It will present behaviorist, social, cognitive and constructivist learning theories,
and consider their contribution to teaching practices and to the understanding of students' learning processes.
Credit units: 3 ECTS Credit Units: 6.

CI 522 Written Academic Discourse II
Credit units: 3 ECTS Credit Units: 6. Prerequisite: CI 512.

CI 532 Written Academic Discourse
Credit units: 3 ECTS Credit Units: 6. Aut (A. Ayas)

CI 599 Master's Thesis
Credit units: None ECTS Credit Units: None. Aut (H. N. Akşıt) Spr (Staff)

CI 601 Instruction: Perspectives and Practice
The course focuses on contemporary instructional theories and design models. Participants will also examine
instructional strategies and effective delivery methods. Topics will include information processing, learning
contracts, simulations, inquiry, learner-based instruction, and digital literacy. Credit units: 3 ECTS Credit Units:
6. Aut (R. A. Martin)

CI 602 Curriculum: Perspectives and Practice
The course examines major themes and concepts relevant to curriculum theory and research. Participants will
critically analyze models of curriculum theory through philosophical, psychological, sociological and historical
perspectives. Credit units: 3 ECTS Credit Units: 6. Aut (H. N. Akşıt)

CI 603 Practicum in Curriculum Development x Evaluation
The course provides experience in developing and evaluating curricula. It introduces technical and non-technical
approaches to development and evaluation. Participants will be expected to pursue a field study in their own
schools. Credit units: 3 ECTS Credit Units: 6.
CI 604  Educational Statistics
This course introduces descriptive and inferential statistical concepts needed to conduct quantitative inquiry in educational statistics. Participants will be expected to analyze cases, and determine and apply appropriate statistical procedures, using the Statistical Package for Social Sciences (SPSS). They will also interpret and report the results. Credit units: 3 ECTS Credit Units: 6. Aut (S. Çoru)

CI 605  Educational Research Methods
The course gives an introduction to the logic of social scientific inquiry and exposure to the methodology, techniques and ethics of research. Participants will focus on how to formulate research problems, collect and analyze data, and present findings, considering various research designs. The use of a theoretical framework in conducting research in educational settings will be emphasized. Credit units: 3 ECTS Credit Units: 6. Aut (A. Ayas)

CI 607  School and Society
The course involves a study of the ways in which formal schooling influences individuals and the ways in which society affects educational institutions. Participants will consider how social institutions and individual experiences within these institutions affect educational processes and social development, and the educational and sociological issues which arise throughout the life of an individual. Credit units: 3 ECTS Credit Units: 6.

CI 608  Current Trends and Issues in Educational Technology
The aim of this course is to explore current trends and related issues in educational technology. The overall theme of the course considers the many different ways educational technology is used in education; types of available technology, teachers’ and students’ use of technology, and challenges for the education community at large will be included. Applications, such as Web 2.0, multimedia, and simulations will be considered in detail. Case studies of good practice, and critical evaluation utilizing related scientific research pertaining to the effectiveness of educational technology in teaching and learning will be studied. Sessions will include practical applications in the computer laboratory and students will also be expected to pursue applications relating to their field of expertise at their own time. Credit units: 3 ECTS Credit Units: 6. Spr (E. Çataloğlu)

CI 611  Issues and Trends in Education
The course focuses on educational issues and trends at the national and global level. Participants will explore and discuss implications of policies affecting educational goals, processes and outcomes. The course involves an analysis of the micro- and macro-level issues nationally and internationally, including those concerned with structural and organizational issues, teacher-training, elementary education, secondary education, higher education, and the transitional problems between these levels. Credit units: 3 ECTS Credit Units: 6. Spr (A. Ayas)

CI 690  Dissertation Seminar
The seminar is intended to guide doctoral students as they prepare their research proposal, which requires approval by the PhD Committee. The seminar follows the qualifying exam and instructs the students in the preparation of the first three chapters of the dissertation. Participants are expected to formally present their work to the group and share their experiences. Credit units: None ECTS Credit Units: None. Aut (H. N. Akşit)

CI 699  PHD Dissertation
Credit units: None ECTS Credit Units: None. Aut (H. N. Akşit) Spr (Staff)
The M.A. in Education Management is offered as a part-time program consisting of three modules: managing the organization; managing the curriculum; and managing teaching.

**Program Goals**

The program is designed for administrators currently working in positions of responsibility in educational institutions and for practising teachers considering such positions. It will enable participants to develop the knowledge and skills to play a key role in school management, curriculum management and staff development, as well as to develop effective teaching skills to a high level. The program aims:

- to give participants the necessary knowledge, skills, and practice to meet the needs of educational institutions and students in the university, secondary and primary education sectors in Turkey;
- to allow participants to make an effective and contemporary contribution to quality education within the institutions in which they work;
- to permit participants to continue working in their institutions and obtain a higher degree through extended, modular study.

In the longer term the program aims to exchange students and teachers with European universities as part of a linked network in the Socrates-Erasmus European program.

### CURRICULUM

#### FIRST YEAR

**Autumn Semester**

- EM 511 Introduction to Development and Learning : 3 / 6
- EM 512 Managing the Curriculum I : 3 / 6
- EM 527 Linguistics and Lexical Studies : 3 / 6

**Spring Semester**

- EM 522 Managing Learning Methods I : 3 / 6
- EM 524 Developing Practice I : 3 / 6

#### SECOND YEAR

**Autumn Semester**

- EM 523 Managing Learning Methods II : 3 / 6
- EM 525 Developing Practice II : 3 / 6

**Spring Semester**

- EM 521 Managing the Classroom : 3 / 6
- EM 526 Classroom Management in Action : 4 / 7

#### THIRD YEAR

**Autumn Semester**

- EM 501 Managing Organizational Processes : 3 / 6
- EM 502 Human Resources Management : 3 / 6
- EM 513 Managing the Curriculum II : 3 / 6
- Restricted Elective : 3 / 6

**Spring Semester**

- EM 503 Accounting, Financial Management and School Administration : 3 / 6
- EM 531 Masters Project : - / 24
ELECTIVES

EM 505 Management in Action ................................................. 3 / 6
EM 506 Research Methods in Education ...................................... 3 / 6
EM 514 Materials Development for Language Teaching .................. 3 / 6

COURSE DESCRIPTIONS

GRADUATE COURSES

EM 501 Managing Organizational Processes
This course provides candidates with insights into managing the school as an organization and looks at defining goals and objectives for the school as well as how to carry out strategic and operational planning. The course will explore ways of creating an effective learning and teaching environment from an administrative perspective. Emphasis will be given to the process of introducing successful innovation within schools and improving the processes of decision making and communication. Credit units: 3 ECTS Credit Units: 6. Spr (F. T. Aksit)

EM 502 Human Resources Management
This course looks at theories of effective organizations, particularly schools, and relates these to effective human resource management. Areas for study will include leadership, motivation, training and development, team work, as well as the issues of accountability, job planning and description, appraisal systems, recruitment and induction. Credit units: 3 ECTS Credit Units: 6. Spr (F. T. Aksit)

EM 503 Accounting, Financial Management and School Administration
This course looks at financial resource management, accounting principles, budget planning and monitoring and putting these into practice. In addition, the marketing of the school with parents, and other stakeholders, project management, management evaluation, as well as practical skills to do with meetings, time management, and presentations will be covered. Credit units: 3 ECTS Credit Units: 6. Aut (J. O'Dwyer)

EM 506 Research Methods in Education
This course introduces basic concepts in educational research; scientific and interpretive paradigms in educational research and of their characteristics; the key components in research design and of the relationships among these; devising effective research questions; the purposes of a literature review; different approaches to educational research; procedures for conducting ethical research; the role of sampling in educational research; procedures for collecting data; analysing quantitative and qualitative data; strategies for enhancing the quality of educational research; strategies for effectively disseminating research findings. Credit units: 3 ECTS Credit Units: 6. Aut (J. O'Dwyer)

EM 511 Introduction to Development and Learning
This course will explore the physical and psychological development of the individual with respect to contemporary theories of learning. This will include consideration of individual learning styles, the growth of cognition, personal traits and the role of affective factors in learning. The implications of these factors for the classroom, and approaches to teaching and learning in general, will be brought to the fore and reflected upon. Credit units: 3 ECTS Credit Units: 6.

EM 512 Managing the Curriculum I
This course will cover concepts, processes and principles of curriculum planning, development and evaluation and is intended to help the student develop the performance competencies needed to engage in curriculum planning and decision-making as an administrator, curriculum specialist or supervisor. Credit units: 3 ECTS Credit Units: 6. Aut (E. Şen)

EM 513 Managing the Curriculum II
A basic introduction to the field of testing and evaluation. The course covers principles, concepts and processes behind evaluation and test construction and is intended to help develop the performance competencies needed to engage in decision-making for school improvement. Credit units: 3 ECTS Credit Units: 6. Prerequisite: ME 512. Aut (C. Thomas)

EM 521 Managing the Classroom
A general overview of the social and psychological factors which determine or affect student behavior in educational settings. Systems for classroom management to maximise student learning outcomes and techniques for meeting the varied needs of learners in any particular classroom with a view to increasing learning success will be explored. Themes will include increasing motivation, managing groups, orienting students, and the quality use of time in the classroom. Credit units: 3 ECTS Credit Units: 6. Spr (B. Clark)

EM 522 Managing Learning Methods I
This course explores teaching methods and strategies, with particular relevance for ESE/FL, and their application to a range of teaching and learning contexts. This will include the evaluation of books which illustrate these
methods and their suitability for chosen contexts. Practical application of the methods will be experienced through micro-teaching, simulation and observation. Emphasis will be given to the systematic evaluation of teaching and learning. **Credit units:** 3 ECTS **Credit Units:** 6.

**EM 523 Managing Learning Methods II**
This course further explores teaching methods and strategies not covered in Methods I. Again a range of pedagogical materials will be evaluated, which illustrate methods and their suitability for chosen contexts. Application of the methods will be systematically evaluated by course members in practical sessions based on peer observation, micro-teaching and visits to classrooms in a variety of educational institutions. **Credit units:** 3 ECTS **Credit Units:** 6, **Prerequisite:** ME 522. **Aut (E. Şen)**

**EM 524 Developing Practice I**
This course aims to introduce candidates to school organization and administration, the daily activities of a school, teachers and students, school-parent contacts, meetings, the observation of classes, specific school-related problems, teaching aids, and print resources. The course requires candidates to be attached to experienced teachers/administrators in selected educational establishments. **Credit units:** 3 ECTS **Credit Units:** 6, **Spr (A. Güven)**

**EM 525 Developing Practice II**
This course builds on insights gained in Practice I and prepares candidates for the Classroom Management in Action course by introducing them to a systematic program of observation and application related to classroom organization, using available course-books, materials preparation and use, and micro-teaching in the classroom. **Credit units:** 3 ECTS **Credit Units:** 6, **Prerequisite:** ME 524. **Spr (E. Şen)**

**EM 526 Classroom Management in Action**
This course requires candidates to teach one full day, or two half days per week, for a minimum of 12 weeks in a selected school, and to take part in post-conference meetings with their tutor to evaluate the lessons taught and share teaching experiences. Taught lessons will be observed by the visiting tutor. **Credit units:** 4 ECTS **Credit Units:** 7, **Aut (F. T. Aksüt, B. Clark)**

**EM 531 Masters Project**
This project enables candidates to carry out research into an area of their choosing in consultation with the tutor related to one or more of the areas covered during the MA programme. Candidates are expected to review the literature related to their chosen topic, to collect and analyse data, and to write up their findings and conclusions. **Credit units:** None ECTS **Credit Units:** 24. **Spr (J. O'Dwyer)**
MA PROGRAM IN TEACHING ENGLISH AS A FOREIGN LANGUAGE

H. N. Aksit (Head), L. J. Buckingham, J. A. Mathews-Aydinli, D. Ortaçtepe.

Master of Arts Program In Teaching English as a Foreign Language (TEFL)

The M.A. TEFL Program is designed to help experienced teachers of English as a foreign language develop professionally by increasing their knowledge of foreign language instruction theory and practice. Students in the program examine the following:

- Linguistics, sociolinguistics, and analysis of the English language;
- Second language acquisition and TEFL research;
- Language teaching methodology, curriculum and materials development, and testing.

M.A. TEFL students discuss and apply instructional models and linguistic theories which relate classroom experiences of EFL students to real-life communicative needs. They also improve their skills in understanding and conducting research in foreign language education.

Admission: Applicants are required to have a B.A. or B.S. degree in Linguistics, English Language Teaching, English, or American Studies. In addition, they are expected to have two years of teaching experience. Applicants must also successfully pass an entrance examination administered as part of the applicant screening process. The exact date and place of the examination is announced each year by the M.A. TEFL Program. (Also refer to the “Graduate Admissions” section in the introduction of this catalog for general graduate admission requirements.)

Degree Requirements:

- Satisfactory completion of at least 30 credit units of course work;
- A thesis approved by a faculty committee.

Criteria for satisfactory completion of courses are described by each instructor at the beginning of each semester. Criteria for successfully completing theses are presented in three research-based courses. To a considerable extent, instruction is individualized and many opportunities are provided during the M.A. program to allow students to improve work which does not meet the criteria. Failure in one course or failure to complete the program in the allotted time, however, will result in no degree being granted. A grade point average of 3.00 is required to graduate.

CURRICULUM

<table>
<thead>
<tr>
<th>Courses</th>
<th>Credits / ECTS Credits</th>
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<tbody>
<tr>
<td>GE 590 Academic Practices</td>
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<tr>
<td>TEFL 501 Second Language Acquisition</td>
<td>3 / 6</td>
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<tr>
<td>TEFL 503 Linguistics: the Nature of Language</td>
<td>3 / 6</td>
</tr>
<tr>
<td>TEFL 510 Language Testing</td>
<td>3 / 6</td>
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<tr>
<td>TEFL 521 EFL Methodology I</td>
<td>3 / 6</td>
</tr>
<tr>
<td>TEFL 528 Curriculum Development and Evaluation</td>
<td>3 / 6</td>
</tr>
<tr>
<td>TEFL 530 Materials Development</td>
<td>3 / 6</td>
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<tr>
<td>TEFL 531 Research Methods in Linguistics I</td>
<td>3 / -</td>
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<tr>
<td>TEFL 532 Research Methods in Linguistics II</td>
<td>3 / -</td>
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<tr>
<td>TEFL 550 Thesis Seminar</td>
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<tr>
<td>TEFL 554 Thesis Writing</td>
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<tr>
<td>TEFL 555 Written Academic Discourse</td>
<td>3 / 6</td>
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<tr>
<td>Restricted Elective</td>
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### RESTRICTED ELECTIVES

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<td>TEFL 506</td>
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<tr>
<td>TEFL 556</td>
<td>Seminar in TEFL</td>
<td>3 / 6</td>
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</tbody>
</table>

### COURSE DESCRIPTIONS

#### GRADUATE COURSES

**TEFL 501 Second Language Acquisition**
Theories of second language acquisition. Students analyze both qualitative and quantitative research studies done in this field during the past 30 years. *Credit units: 3 ECTS Credit Units: 6. Aut (D. Ortacêpe)*

**TEFL 503 Linguistics: the Nature of Language**
Foundations in linguistics with an emphasis on basic terminology, concepts, and analysis. Main topics include phonetics, phonology, morphology, syntax, semantics, and pragmatics. Discussion focuses on their relevance and application to second language acquisition and foreign language teaching. *Credit units: 3 ECTS Credit Units: 6. Aut (J. A. Mathews-Aydinlî)*

**TEFL 506 Sociolinguistics**
Examination of linguistic variation in English among social groups due to region, socio-economic status, gender, ethnicity, and age, especially as this variation relates to language learning. Linguistic registers, standard and non-standard dialects, language attitudes, and attitudes toward language learning are also treated. *Credit units: 3 ECTS Credit Units: 6.*

**TEFL 510 Language Testing**
Theoretical and practical considerations in the construction, use, and critical evaluation of both classroom and standardized tests of language proficiency. Students are acquainted with basic concepts of validity and reliability, as well as a variety of different kinds of tests and testing techniques. *Credit units: 3 ECTS Credit Units: 6. Spr (D. Ortacêpe)*

**TEFL 521 EFL Methodology I**
Discussion of the major foreign language teaching methods in their historical contexts, as well as individual language skills and integrated skills. Current areas of concern in ESL/EFL are also examined, and key EFL/ESL terminology is reviewed. *Credit units: 3 ECTS Credit Units: 6. Aut (D. Ortacêpe)*

**TEFL 528 Curriculum Development and Evaluation**
Principles of course design, implementation, and evaluation. The role of the teacher in the curriculum process is central to the course. Small projects and papers relating to students’ experiences will provide skills in developing and evaluating curricula. *Credit units: 3 ECTS Credit Units: 6. Spr (L. J. Buckingham)*

**TEFL 530 Materials Development**
Selection, adaptation, development, evaluation, and implementation of lesson plans, textbooks, and other materials for different teaching situations. Students become familiar with a variety of materials. Opportunities are provided for critiquing, developing, and adapting materials for a wide range of contexts and target groups. *Credit units: 3 ECTS Credit Units: 6. Spr (D. Ortacêpe)*

**TEFL 531 Research Methods in Linguistics I**
Introduction to skills in library research and applied linguistics research methodology including the collection, analysis, and processing of data. Issues of research methodology are examined for their applicability to critiquing published research and to conducting original research in language-learning environments. Quantitative, qualitative, and mixed-methods research designs are examined. *Credit units: 3 ECTS Credit Units: None. Aut (J. A. Mathews-Aydinlî)*

**TEFL 532 Research Methods in Linguistics II**
This course is a continuation of Research Methods in Linguistics I, and includes further detailed examination of theoretical and methodological topics in the contemporary literature on qualitative, quantitative, and mixed-methods research designs. It also explores topics in the ongoing development of applied linguistics research methodology in particular, and provides students with additional practice in the critical reading, understanding, and assessing of published research. *Credit units: 3 ECTS Credit Units: None. Spr (D. Ortacêpe)*

**TEFL 550 Thesis Seminar**
*Credit units: None ECTS Credit Units: None. Spr (Staff)*

**TEFL 554 Thesis Writing**
Focus on presenting aspects of research findings in an organised and coherent manner. Students receive critical feedback from their peers and their instructor on their theses. The emphasis is on the improvement of academic discourse in order to complete the program thesis successfully. *Credit units: None ECTS Credit Units: None. Aut (H. N. Aksît) Spr (Staff)*
TEFL 555  Written Academic Discourse
Focus on developing essential skills for effective presentation of academic language in written discussion. Meta-
discussion of reading and exercises will help develop students’ own abilities to teach academic writing. Credit
units: 3 ECTS Credit Units: 6. Aut (L. J. Buckingham)

TEFL 556  Seminar in TEFL
In-depth exploration of and innovative approaches to topics of importance in the field of TEFL. The course may be
divided into two eight-week seminars to allow expanded coverage of the issues. Specific topics to be determined
by the instructor(s). Credit units: 3 ECTS Credit Units: 6. Aut (D. Ortaçtepe)
The Faculty of Engineering comprises four academic departments:

- Computer Engineering
- Electrical and Electronics Engineering
- Industrial Engineering
- Mechanical Engineering

The mission of the Faculty of Engineering is not only to impart contemporary engineering and scientific knowledge in the four engineering disciplines but also to inculcate creativity, research techniques, and self development. The graduates of engineering programs are expected to acquire dynamic learning skills and to readily adapt to technological changes as well as to solve fast growing problems of the modern society.

The programs of study in engineering aim to achieve a productive balance between depth of knowledge acquired in technical areas and breadth of knowledge acquired through humanities, arts and social sciences. Depth involves the intensive study of a subject through specialization in a major field; breadth on the other hand plays an important role to equip the graduate in pursuit of a richer personal and professional life. Hence, the curriculum provides a firm background in the basic sciences through courses in mathematics, computer science, physics, and chemistry. It has a solid syllabus of engineering that leads to specialized courses that are primarily of a technical nature. In order to provide the student with a broad intellectual spectrum, elective courses are offered through the other faculties of the university.

An integral component of engineering profession is centered upon various forms of communication. Therefore, a primary goal in engineering education is to equip prospective engineers with strong communication skills. Language and communications courses are integrated into the curriculum to reach such a target.

Engineering education is an evolutionary process driven by advances in technology. Hence, the aim of the programs is to develop the ability to learn on a career-long basis.

Physical, mathematical and engineering sciences courses are intended to provide the students with the necessary capability to model and analyze the real world. The courses with design components are to increase innovation and synthesis capability whereas the project courses are to enhance the integration capability of the students. Students are expected to utilize, integrate and advance their accumulated knowledge skills and engineering concepts during their semester-long specialized projects. Knowledge in humanities, arts and social science will contribute to students’ understanding of the society and environment in which the engineering is practiced.

ACADEMIC STAFF

Nail Akar, Associate Professor
Ph.D., Electrical and Electronics Engineering, Bilkent University, 1994. Teletraffic analysis, performance evaluation, high-speed telecommunication networks, Internet technologies.

Adnan Akay, Professor

Alp Eren Akçay, Assistant Professor
Varol Akman, Professor  
Ph.D., Electrical, Computer, and Systems Engineering, Rensselaer Polytechnic Institute, 1985. Artificial intelligence, logic, philosophy of language, philosophy of mind, pragmatics, the Internet and society.

Selim Aksoy, Associate Professor (on leave)  

Mehmet Selim Aktürk, Professor  

Can Alkan, Assistant Professor  
Ph.D., Computer Science, Case Western Reserve University, 2005. Bioinformatics, genomics, computational biology.

Ayhan Altıntas, Professor  

Erdal Arıkan, Professor  
Ph.D., Electrical Engineering and Computer Science, Massachusetts Institute of Technology, 1985. Information theory.

Orhan Arıkan, Professor  
Ph.D., Electrical and Computer Engineering, University of Illinois at Urbana-Champaign, 1990. Signal processing, remote sensing, communications.

Abdullah Atalar, Professor  

Ergin Atalar, Professor  
Ph.D., Electrical and Electronics Engineering, Bilkent University, 1991. Image guided medical interventions, magnetic resonance imaging, antenna design for MRI.

Cevdet Aykanat, Professor  

Orhan Aytür, Professor  

Mehmet Baray, Professor  

Billur Barshan, Professor  

Mehmet Zeyyad Baykara, Assistant Professor  

Fazlı Can, Visiting Professor  
Ph.D., Computer Engineering, Middle East Technical University, 1985. Information Retrieval, data mining, machine learning.
Melih Çakmakçı, Assistant Professor
Ph.D., Mechanical Engineering, University of Michigan, 2009. Dynamic systems and control. Multivariable control systems, nonlinear systems and control, vehicle control systems and smart mechatronic components.

Tolga Kurtuluş Çapin, Assistant Professor

Özlem Çavuş, Assistant Professor

Ahmet Enis Çetin, Professor

Barbaros Çetin, Assistant Professor
Ph.D., Mechanical Engineering, Vanderbilt University, 2009. Microfluidics, lab-on-a-chip technology, electrokinetic transport at microscale, heat transfer at microscale.

Tolga Çukur, Assistant Professor
Ph.D., Electrical Engineering, Stanford University, 2009. Biomedical imaging, magnetic resonance imaging (MRI), signal processing, computational neuroscience.

David Davenport, Lecturer
Ph.D., Electrical Engineering, University of Birmingham, 1980. Artificial intelligence, cognitive science, information retrieval, computer and education, Internet-related issues.

Aynur Dayanık, Instructor
Ph.D., Computer Science, Rutgers University, 2006. Machine Learning, information retrieval, text mining, bioinformatics, data mining.

Savaş Dayanık, Associate Professor

Tuğrul Dayar, Professor

Hilmi Volkan Demir, Associate Professor
Ph.D., Electrical Engineering, Stanford University, 2004. Light-emitting diodes (LEDs), photovoltaics (PV), semiconductor nanocrystal optoelectronics, energy transfer driven devices and sensors, nanoparticles/nanocomposites, nanophotonics, RF sensing bioimplants and medical devices.

Uğur Doğrusöz, Associate Professor
Ph.D., Computer Science, Rensselaer Polytechnic Institute, 1995. Graph visualization, bioinformatics, combinatorial algorithms, and graph theory.

Tolga Mete Duman, Professor
Ph.D., Electrical and Computer Engineering, Northeastern University, 1998. Wireless and mobile communications, channel coding, turbo codes.

Pınar Duygu Şahin, Assistant Professor (on leave)
Ph.D., Computer Engineering, Middle East Technical University, 2003. Multimedia data mining, information retrieval, computer vision, statistical machine learning, visual perception.

Emine Yegan Erdem, Assistant Professor
Ph.D., Mechanical Engineering, University of California at Berkeley, 2013. Microfluidics, droplet-based systems, microreactors, nanoparticle synthesis, nanoinprinting.
Nesim Erkip, Professor

Vakur Behçet Ertürk, Associate Professor

Hakan Ferhatosmanoğlu, Associate Professor
Ph.D., Computer Science, University of California, Santa Barbara, 2001. Database systems, data mining, bioinformatics.

Buğra Gedik, Assistant Professor
Ph.D., Computer Science, Georgia Institute of Technology, College of Computing, 2006. Data intensive distributed systems, distributed systems, data bases, and cloud computing.

Sinan Gezici, Associate Professor

Kağan Gökbayrak, Assistant Professor

Uğur Gündükbay, Associate Professor
Ph.D., Computer Engineering and Information Science, Bilkent University, 1994. Computer graphics, physically-based modeling and animation, deformable models, multimedia databases, computational geometry.

Çiğdem Gündüz Demir, Associate Professor
Ph.D., Computer Science, Rensselaer Polytechnic Institute, 2005. Medical image analysis, computational biology, pattern recognition, machine learning, computer vision.

Levent Gürel, Professor (on leave)

Ülkü Gürler, Professor

H. Altay Güvenir, Professor
Ph.D., Computer Engineering and Science, Case Western Reserve University, 1987. Artificial intelligence, machine learning, data mining, intelligent data analysis.

Mehmet Selim Hanay, Assistant Professor
Ph.D., Physics, California Institute of Technology (Caltech), 2011. Nanoelectromechanical systems, mass sensing.

Yusuf Ziya Ider, Professor
Ph.D., Biomedical Engineering, Northwestern University, 1979. Electrical impedance tomography, magnetic resonance imaging, acquisition and processing of physiological signals, PC based instrumentation.

Ezhan Karaşan, Professor
Ph.D., Electrical and Computer Engineering, Rutgers University, 1995. Broadband integrated networks, traffic and switching theory, optical networks, information and coding theory.

Oya Karaşan, Associate Professor
Yiğit Karpat, Assistant Professor

Ayse Selin Kocaman, Assistant Professor

Süleyman Serdar Kozat, Assistant Professor
Ph.D., Electrical and Computer Engineering, University of Illinois at Urbana Champaign, 2004. Dr. Kozat’s research interests include digital signal processing, adaptive filtering, online learning and machine learning algorithms for signal processing.

İbrahim Köreöğlu, Associate Professor

Hayrettin Köymen, Professor
Ph.D., Electrical Engineering, University of Birmingham, 1979. Acoustic imaging, linear and finite amplitude acoustics, medical instrumentation, processing and modeling of physiological signals.

Ömer Morgül, Professor

Ayşe Semra Mumcu, Instructor
M.S., Electrical and Electronics Engineering, Middle East Technical University, 1990. Computer architecture, technical computing.

Emre Nadar, Assistant Professor

Osman Öğuz, Associate Professor
Ph.D., Management Sciences, University of Waterloo, 1978. Mathematical programming, linear and integer programming, scheduling.

Ali Kemal Okyay, Assistant Professor
Ph.D., Electrical Engineering, Stanford University, 2007. Photovoltaics (PV), semiconductor devices and sensors, nanophotonics, nano-biosensors, plasmonics enhanced nanodevices, nanoparticles/nanocomposites, thin film transistors (TFTs) and memory devices, flexible optoelectronics.

Levent Onural, Professor
Ph.D., Electrical and Computer Engineering, State University of New York at Buffalo, 1985. Signal and image processing, video processing, holography, diffraction, signal processing for diffraction and holography, 3DTV.

Özay Oral, Professor
Ph.D., Electrical Engineering, Middle East Technical University, 1971. Design of multivariable control systems, stabilization of large scale systems, systems theory, formulation of networks and systems.

Hilmi Önçül, Instructor

Haldun Özaktaş, Professor
Ph.D., Electrical Engineering, Stanford University, 1991. Optical information processing, signal and image processing, optoelectronic and optically interconnected computing systems.
Ekmeł Özbay, Professor

Hitay Özbay, Professor
Ph.D., Control Sciences and Dynamical Systems, University of Minnesota, 1989. Robust control, distributed parameter systems, applications of control theory in various engineering fields.

Özlem Özkü, Instructor

Bülenç Özgüç, Professor

Arlı Bülen Özgüler, Professor

Özcan Öztürk, Associate Professor
Ph.D., Computer Science and Engineering, Pennsylvania State University, 2007. Multicores and manycores, cloud computing, high performance computing, compiler optimizations, computer architecture.

Mustafa Çelebi Pınar, Professor

Tarık Reyhan, Senior Lecturer
Ph.D., Electrical Engineering, University of Birmingham, 1981. Radio communication, RF design, thermal imaging, electro-optics, space communications.

Emine Ülkü Sarıtaş, Assistant Professor
Ph.D., Electrical Engineering, Stanford University, 2009. Biomedical imaging, magnetic resonance imaging (MRI), magnetic particle imaging (MPI), signal and image processing, safety limits of magnetic fields in medical imaging systems.

William Sawyer, Instructor
M.S., Electrical Engineering, Northeastern University, 1988. Digital design, CAD tools, computer architecture.

İpek Sözen, Instructor
M.S., Computer Engineering, Middle East Technical University, 1989. Programming languages, data structures, information systems.

Alper Şen, Associate Professor
Ph.D., Business Administration, University of Southern California, 2000. Revenue management, inventory theory, supply chain management, machine scheduling.

Özmir Taştan Okan, Assistant Professor

Bedir Tekinerdoğan, Assistant Professor
Ph.D., Computer Science, University of Twente, 2000. Software engineering, software architecture design, software product line engineering, model-driven software development, aspect-oriented software development.

İlker Temizer, Assistant Professor
Ph.D., Mechanical Engineering, University of California, Berkeley, 2005. Computational mechanics, thermodynamics of homogenization, contact mechanics, multiscale modeling.
Ayşegül Toptal Bilhan, Assistant Professor

Özgür Ulusoy, Professor
Ph.D., Computer Science, University of Illinois at Urbana-Champaign, 1992. Database systems, web information retrieval, mobile and peer to peer systems.

Aslı Üstün, Instructor
M.S., Mechanical Engineering, University of New Hampshire, USA, 1993. CAD design and analysis, engineering computation tools.

Hande Yaman Paternotte, Associate Professor
Ph.D., Operations Research, Université Libre de Bruxelles, 2002. Integer programming, polyhedral theory, location and network design, robust optimization.

Bahar Yetış, Associate Professor
Ph.D., Industrial Engineering, Bilkent University, 1999. Hub location problems, hazardous materials transportation, bilevel optimization, mathematical programming.

Serdar Yüksel, Visiting Assistant Professor

ACADEMIC COORDINATORS
Nermin Fenmen, M.S., Chemical Engineering, Middle East Technical University, 1982.

LABORATORY COORDINATORS
Şakir Baytaroğlu, Ph.D., Metallurgy Department, Yıldız Technical University, 1996.

PART-TIME ACADEMIC STAFF
İbrahim Akgün, Ph.D., Industrial Engineering, Bilkent University, 2006.
Omer Aka Anlagan, Ph.D., Machine Tool Technology Division, University of Manchester Institute of Science and Technology (UMIST), 1975.
Şerif Faruk Arınc, Ph.D., Nuclear Engineering, North Carolina State University, 1976.
Şakir Baytaroğlu, Ph.D., Metallurgy Department, Yıldız Technical University, 1996.
Burcu Dönmez, Ph.D., Mechanical Engineering, Middle East Technical University, 2009.
Yavuz Oruc, Ph.D., Syracuse University, 1983.
Nil Şahin, Ph.D., Mathematics, Middle East Technical University, 2012.
Müjdat Tohumcu, Ph.D., Electrical and Electronics Engineering, Middle East Technical University, 1985.
Hümkar Toyoğlu, Ph.D., Industrial Engineering, Bilkent University, 2010.
İsmail Enis Ungan, Ph.D., Electrical and Electronics Engineering, Middle East Technical University, 1996.
Oğuzhan Vici, Ph.D., School of Operations Research and Information Engineering, Cornell University, 2006.
Nur Yıldırım, M.S., Electrical and Electronics Engineering, Middle East Technical University, 1971.
DEPARTMENT OF COMPUTER ENGINEERING


Part-time: Y. Oruç, A. A. Selçuk.

The Computer Engineering Department offers programs that lead to B.S., M.S., and Ph.D. degrees.

UNDERGRADUATE PROGRAM

Bilkent University has been founded with the aim of establishing a center of excellence in higher education and research. The Department of Computer Engineering is responsible for the implementation of this mission in the area of computer engineering, and is dedicated to serving society and the advancement of knowledge through excellent teaching and scholarship.

As its educational objectives, our department is committed to prepare our alumni to

1. Pursue advanced studies and/or
2. Have successful careers in industry, government, or academia.

Beyond the educational objectives, we expect our alumni to be known for their

1. Intellectual maturity in problem solving, design, creativity and analytical/critical thinking.
2. Possession of a strong background in the principles and practices of computer engineering.
3. Knowledge that is relevant technological needs in a competitive global environment.
4. Continuing efforts to learn throughout their career.
5. Collaboration with others.
6. Strong written and oral communication skills.
7. Professional and ethical responsibility.

The program aims to provide students with the fundamental knowledge and interdisciplinary problem solving skills for a fulfilling career in high quality engineering work and advanced research, required in the information based society of the 21st century. The program emphasizes a solid background in basic science and mathematics, a strong preparation in hardware, software and theory towards the analysis, design and application of computers and information-processing techniques to the solution of real world problems. The courses are complemented with laboratory practice with state-of-the-art computing systems. With the help of two summer trainings each of which must be at least four weeks long, junior and senior students practice their knowledge, learn to function in a collaborative and most of the time multi-disciplinary environment, and improve their communication skills. The program also provides the students with a broad intellectual spectrum by including various elective courses in economics, social sciences, humanities and arts. For two semesters in the senior year, students work on a design project that requires creative thinking and present their work at the end of their study in the department.
## UNDERGRADUATE CURRICULUM

### FIRST YEAR

#### Autumn Semester

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<tr>
<td>ENG 101</td>
<td>English and Composition I</td>
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<td>GE 100</td>
<td>Orientation</td>
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<td>MATH 101</td>
<td>Calculus I</td>
<td>4 / 7</td>
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<tr>
<td>MBG 110</td>
<td>Introduction to Modern Biology</td>
<td>3 / 6</td>
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<td>TURK 101</td>
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<td>ENG 102</td>
<td>English and Composition II</td>
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<tr>
<td>MATH 102</td>
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<td>TURK 102</td>
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### SECOND YEAR

#### Autumn Semester

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<td>CS 201</td>
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<tr>
<td>CS 223</td>
<td>Digital Design</td>
<td>4 / 8</td>
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<tr>
<td>GE 250</td>
<td>Collegiate Activities Program I</td>
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<tr>
<td>HIST 200</td>
<td>History of Turkey</td>
<td>4 / -</td>
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<tr>
<td>HUM 111</td>
<td>Cultures, Civilizations and Ideas I</td>
<td>3 / 4</td>
</tr>
<tr>
<td>PHYS 101</td>
<td>General Physics I</td>
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#### Spring Semester

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<tr>
<td>CS 224</td>
<td>Computer Organization</td>
<td>4 / 6</td>
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<tr>
<td>HUM 112</td>
<td>Cultures, Civilizations and Ideas II</td>
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<tr>
<td>MATH 225</td>
<td>Linear Algebra and Differential Equations</td>
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<tr>
<td>PHYS 102</td>
<td>General Physics II</td>
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### THIRD YEAR

#### Autumn Semester

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<tr>
<td>CS 299</td>
<td>Summer Training I</td>
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<tr>
<td>CS 315</td>
<td>Programming Languages</td>
<td>3 / 6</td>
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<tr>
<td>CS 319</td>
<td>Object-Oriented Software Engineering</td>
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<tr>
<td>GE 301</td>
<td>Science Technology and Society</td>
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<tr>
<td>MATH 230</td>
<td>Probability and Statistics for Engineers</td>
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#### Spring Semester

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<tbody>
<tr>
<td>CS 342</td>
<td>Operating Systems</td>
<td>4 / 6</td>
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<tr>
<td>CS 353</td>
<td>Database Systems</td>
<td>3 / 6</td>
</tr>
<tr>
<td>EEE 391</td>
<td>Basics of Signals and Systems</td>
<td>3 / 6</td>
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<tr>
<td>ENG 401</td>
<td>Technical Report Writing and Presentation</td>
<td>2 / 2</td>
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<tr>
<td></td>
<td>Humanities and Social Sciences Elective</td>
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### FOURTH YEAR

#### Autumn Semester

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<td>CS 399</td>
<td>Summer Training II</td>
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<tr>
<td>CS 473</td>
<td>Algorithms I</td>
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<tr>
<td>IE 400</td>
<td>Principles of Engineering Management</td>
<td>3 / 6</td>
</tr>
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**NOTES:**
- The table above outlines the courses and credits for the first four years of the Department of Computer Engineering curriculum.
- Autumn Semester courses are listed first, followed by Spring Semester courses for each year.
Spring Semester

Credits / ECTS Credits

208

Project Elective .......................................................... 3 / 6
Technical Electives (2) .................................................... 6 / 12

CS 476 Automata Theory and Formal Languages .................. 3 / 6
Project Elective .................................................................. 3 / 6
Technical Electives (3) ........................................................ 9 / 18

HUMANITIES and SOCIAL SCIENCES ELECTIVES

A list of approved elective courses is announced at the beginning of each semester by the Department.

TECHNICAL ELECTIVES

CS 411 Software Architecture Design .................................. 3 / 6
CS 413 Software Engineering Project Management ............... 3 / 6
CS 415 Software Product Line Engineering ........................... 3 / 6
CS 416 Compiler Design .................................................... 3 / 6
CS 418 eBusiness Technologies and Business Solutions using eBusiness Patterns and Technologies ........................................ 3 / 6
CS 419 Information Technology Entrepreneurship ................ 3 / 6
CS 421 Computer Networks ................................................. 3 / 6
CS 422 Wireless Networking Technologies and Applications .... 3 / 6
CS 423 Computer Architecture ............................................. 3 / 6
CS 424 Computer Network Programming ................................ 3 / 6
CS 426 Parallel Computing .................................................. 3 / 6
CS 432 Machine-to-Machine (M2M) Systems ....................... 3 / 6
CS 442 Distributed Systems and Algorithms ......................... 3 / 6
CS 443 Cloud Computing and Mobile Applications ............... 3 / 6
CS 446 Database Management Systems II ............................ 3 / 6
CS 458 Software Verification and Validation ......................... 3 / 6
CS 461 Artificial Intelligence ................................................. 3 / 6
CS 464 Introduction to Machine Learning .............................. 3 / 6
CS 465 Computer Graphics I ............................................... 4 / 6
CS 466 Computer Graphics II ............................................... 4 / 6
CS 468 Principles of User Interface Design ............................ 3 / 6
CS 470 Introduction to Applied Cryptography ......................... 3 / 6
CS 471 Numerical Methods .................................................. 3 / 6
CS 481 Bioinformatics Algorithms ....................................... 3 / 6
CS 484 Image Analysis .......................................................... 3 / 6
CS 490 Introduction to Research in Computer Engineering and Science .................................................. 3 / 6
CS 502 Algorithms II ............................................................ 3 / 7.5
EE 424 Digital Signal Processing .......................................... 4 / 7
EE 436 Wireless Networking Technologies and Applications .... 3 / 6
EE 443 Neural Networks ....................................................... 3 / 6
IE 325 Stochastic Models ...................................................... 3 / 6
IE 420 Heuristics in Optimization ......................................... 3 / 6
MATH 202 Complex Analysis ................................................. 3 / 6
MATH 213 Advanced Calculus I .............................................. 3 / 6
MATH 215 Mathematical Analysis ......................................... 3 / 6
MATH 253 Introduction to Number Theory ............................ 3 / 6
MATH 313 Real Analysis I ..................................................... 3 / 6
MATH 314 Real Analysis II .................................................... 3 / 6
MATH 318 Fourier Transform and Wavelets .......................... 3 / 6
MATH 324 Algebra II ............................................................ 3 / 6
GRADUATE PROGRAMS

The Department of Computer Engineering offers M.S. and Ph.D. degree programs with the possibility of specialization in different areas of research in computer engineering. Current research areas are artificial intelligence, logic, computer vision, data mining, machine learning, pattern recognition, big data, data stream processing systems, data intensive distributed systems, bioinformatics, computational biology, genomics, database systems, distributed database systems, object-oriented systems, information storage and retrieval, software engineering, software architecture design, computer graphics, physically based animation, ray tracing, radiosity, user interfaces, image analysis, parallel processing, parallel algorithm design, task assignment, simulation of various applications on multi-computer architectures, multicore and manycore, cloud computing, high performance computing, parallel methods for scientific computing, computer networks, mobile and wireless networking, combinatorial algorithms, graph theory, graph drawing, graph coloring, computational geometry, graph visualization, capacity planning for web services, performance modeling.

Master of Science in Computer Engineering

Admission: All applicants are required to have a B.S. degree in computer engineering, computer science, or in a related field of science or engineering. Students with a B.S. degree in areas other than computer engineering may be requested to take several undergraduate courses in the field to acquire the necessary background. Evaluation of applicants is based on their ALES (Akademik Personel ve Lisansüstü Eğitimi Giriş Sınavı - Academic Personnel and Postgraduate Education Entrance Examination) scores, past academic records, reference letters and an interview. Applicants who are not Turkish citizens and Turkish citizen applicants who are residents of another country may take GRE instead of ALES. All non-native speakers of English are required to submit a proof of satisfactory knowledge of English.

Degree Requirements: In addition to at least 24 credit units of course work, the M.S. degree candidate must prepare and successfully defend a thesis. Expected duration to complete the M.S. program is four semesters; the maximum duration is six semesters.

Doctor of Philosophy in Computer Engineering

Admission: All applicants are required to have a B.S. degree in computer engineering, or in a related field of science or engineering. Evaluation of applicants is based on their ALES (Akademik Personel ve Lisansüstü Eğitimi Giriş Sınavı - Academic Personnel and Postgraduate Education Entrance Examination) scores, past academic records, reference letters and an interview. Applicants who are not Turkish citizens and Turkish citizen applicants who are residents of another country may take GRE instead of ALES. All non-native speakers of English are required to submit a proof of satisfactory knowledge of English.

Degree Requirements: 24 credit units of course work beyond the M.S. level or 48 credits of course work beyond the B.S. level is required. PhD candidates must pass a qualifying exam typically on their fourth semester, and then must prepare a thesis work proposal. Preparing and defending a dissertation based on original research is the essence of the program. A dissertation based on original research is the essence of the program. The expected duration to complete the
Ph.D. program is eight semesters for students who enter the program after a M.S. degree, and ten semesters for those who enter after a B.S. degree. The maximum durations are 12 and 14 semesters, respectively.

### COURSE DESCRIPTIONS

#### UNDERGRADUATE COURSES

**CS 101 Algorithms and Programming I**  
Basic computer literacy: terminology, system components and operation. Fundamentals of computer programming: top-down structured design, sequence, decision, repetition, syntax, compilation, debugging and maintenance, object-oriented programming with Java, objects classes, methods, parameters, arrays, layout and style. The emphasis is on an engineering “right-first-time” approach to solving large problems using computers.  
_Credit units: 4 ECTS Credit Units: 7._  
_Aut (D. Davenport, A. Dayanık, Ö. Taştaç Ökan) Spr (H. Ferhatosmanoğlu, H. A. Güvenir)

**CS 102 Algorithms and Programming II**  
_Credit units: 4 ECTS Credit Units: 7._  
_Prerequisite: CS 101 or CS 111._  
_Aut (U. Gündoğukbay, Ö. Özgü) Spr (D. Davenport, Ö. Öztürk)

**CS 113 Introduction to Computing for Engineers**  
_Credit units: 4 ECTS Credit Units: 7._  
_Aut (A. S. Mumcu, A. Üstünner) Spr (A. Üstünner)

**CS 114 Introduction to Programming for Engineers**  
Introduction to programming with Java. Data and Expressions: character strings, variables and assignments, primitive data types, expressions, data conversion. Using classes and objects: creating objects, the String class, the Random class, the Math class, formatting output, enumerated types. Writing classes: classes and objects, anatomy of a class, encapsulation, anatomy of a method. Conditionals and loops: Boolean expressions, the if statement, comparing data, the switch statement, the while statement, iterators, the do statement, the for statement. Arrays: array elements, declaring and using arrays, arrays of objects, command-line arguments, variable length parameter lists, two-dimensional arrays, the ArrayList class, Recursion: recursive thinking, recursive programming, using recursion.  
_Credit units: 4 ECTS Credit Units: 7._  
_Prerequisite: CS 111 or CS 113._  
_Aut (Özgü, I. Sözen) Spr (Özgü, I. Sözen)

**CS 121 Introduction to Computing for Social Sciences**  
Fundamental office tools. Word processing, document formatting, paragraph formats, styles, hyphenation, spelling and grammar checking, outline, table of contents, indexes, citations, captions and bibliography; creating master document and subdocuments, tracking changes in a document; multiple user editing, versioning, mail merge and mailing labels. Introduction to spreadsheet concepts, formatting worksheets, managing worksheets; writing formulas and use of built-in functions and auditing; conditional formatting; common mistakes in writing formulas, circular reference, missing reference in formulas; charts. Database concepts. Preparing presentations, templates, use of multimedia.  
_Credit units: 3 ECTS Credit Units: 6._  
_Aut (A. S. Mumcu, H. Öncül, Ö. Özgü) Spr (Staff)

**CS 123 Introduction to Computing and Programming for Social Sciences**  
Introduction to spreadsheet concept. Formatting and managing worksheets. Entering data into cells, formulas and commonly-used functions, creating charts using Excel data. Relative and absolute addresses. Database query concept. Basic programming concepts. Array operations in MATLAB. Conditional statements and loops. Two-dimensional plots in MATLAB.  
_Credit units: 3 ECTS Credit Units: 6._  
_Aut (I. Sözen) Spr (I. Sözen)
CS 153 Introduction to Computing I
Credit units: 3 ECTS Credit Units: 6. Aut (M. H. Erdog) Spr (M. H. Erdog)

CS 154 Introduction to Computing II
Continuation of CS 153. Basics of Internet, World Wide Web, HTML tags, URLs (Uniform Resource Locaters), multimedia files, forms, image maps, CGI (Common Gateway Interface), Java language. 
Credit units: 3 ECTS Credit Units: 6, Prerequisite: CS 153. Spr (M. H. Erdog)

CS 155 Multimedia Authoring System and Standards
Multimedia programming: basic tools and hypertext mark-up language (HTML), innovative applications and multitasking in the multimedia environment. Introduction to authoring systems: Currently used authoring systems. Paradigm structure of the authoring systems: Authoring and script paradigm, iconic/flow paradigm, frame paradigm, card/scripting paradigm and hypermedia linkage paradigm. Authoring process and interface metaphors, multimedia scripting and scripting languages. Communication through multimedia applications: Audio, motion, graphics and user interaction. 
Credit units: 3 ECTS Credit Units: 6, Prerequisite: CS 154. Aut (M. H. Erdog)

CS 201 Fundamental Structures of Computer Science I
Credit units: 3 ECTS Credit Units: 6, Prerequisite: CS 102. Aut (A. Dayanik, Ç. Gündüz Demir) Spr (A. Dayanik)

CS 202 Fundamental Structures of Computer Science II
Credit units: 3 ECTS Credit Units: 6, Prerequisite: CS 201 and MATH 132. Aut (T. Dayar) Spr (T. K. Çağın, Ç. Gündüz Demir)

CS 223 Digital Design
Credit units: 4 ECTS Credit Units: 8. Aut (M. Baray, W. Sawyer) Spr (M. Baray)

CS 224 Computer Organization
Credit units: 4 ECTS Credit Units: 6, Prerequisite: CS 223. Aut (F. Can, W. Sawyer) Spr (W. Sawyer)

CS 281 Computers and Data Organization
Credit units: 3 ECTS Credit Units: 6, Prerequisite: CS 101 or CS 114. Aut (F. Can, Ö. Ulusoy) Spr (U. Güdükbay)

CS 299 Summer Training I
Conducted in a company setting with involvement in real projects for a minimum of four weeks (20 working days). Application of knowledge and skills learned at school to solve engineering problems related to computer systems in the real-world. Familiarization with professional and ethical responsibility while working in multidisciplinary teams. Understanding the impact of engineering solutions in a global, economic, environmental and societal context. Learning to find relevant resources to access information. Observation of the use of contemporary tools, techniques, standards and methods. Preparing technical documentation. 
Credit units: None ECTS Credit Units: 1, Prerequisite: CS 202. Aut (Staff) Spr (Staff)

CS 315 Programming Languages
Functional programming languages. Logic programming languages. Credit units: 3 ECTS Credit Units: 6, Prerequisite: CS 102. Aut (B. Gedik) Spr (B. Gedik)

CS 319 Object-Oriented Software Engineering
Principles and stages of object-oriented software development. Overview of object-oriented software modeling with Unified Modeling Language and exposure to CASE tools for object-oriented development. Experience with such tools and environments through programming assignments and/or a term project. Credit units: 4 ECTS Credit Units: 6, Prerequisite: CS 102 and CS 201. Aut (C. Alkan, B. Tekinerdogan) Spr (U. Dogrusoz)

CS 342 Operating Systems
Introduction to computer operating systems; processes, threads, interprocess communication, process scheduling, process synchronization, deadlocks, memory management and virtual memory, file systems - interface and implementation, mass-storage structure and management, input/output systems, examples from operating systems such as Linux and Windows. Credit units: 4 ECTS Credit Units: 6, Prerequisite: CS 202 and CS 224. Aut (I. Korneoglu) Spr (I. Korneoglu)

CS 353 Database Systems

CS 399 Summer Training II
Conducted in a company setting with involvement in real projects for a minimum of four weeks (20 working days). Application of knowledge and skills learned at school to solve engineering problems related to computer systems in the real-world. Familiarization with professional and ethical responsibility while working in multidisciplinary teams. Understanding the impact of engineering solutions in a global, economic, environmental and societal context. Learning to find relevant resources to access information. Observation of the use of contemporary tools, techniques, standards and methods. Preparing technical documentation. Credit units: None ECTS Credit Units: 1, Prerequisite: CS 299. Aut (Staff) Spr (Staff)

CS 411 Software Architecture Design
Basic concepts, methods and techniques for designing software architectures; rationale for software architecture design, modeling software architecture design, architectural styles/patterns, architectural requirements analysis, comparison and evaluation of architecture design methods, synthesis-based software architecture design, software product-line architectures, domain modeling, domain engineering and application engineering, software architecture implementation, evaluating software architecture designs. Credit units: 3 ECTS Credit Units: 6, Prerequisite: CS 319. Aut (B. Tekinerdogan)

CS 413 Software Engineering Project Management
Software development process models. Project planning techniques, developing an architecture decomposition view, Work Breakdown Structure (WBS), creating project schedule, resource profiles and Gantt charts. Software project effort and cost estimation techniques and software product size measures. Software metrics, measuring and controlling software processes and processes. Risk management, teamwork, leadership, communication and organizational issues. Credit units: 3 ECTS Credit Units: 6, Prerequisite: CS 319. Spr (B. Akporay)

CS 415 Software Product Line Engineering
Software reuse, SPL methods, domain engineering, application engineering, commonality and variability analysis, variability modeling, reference architecture, application architecture, software product portfolio management, software product line scoping, testing in SPL, organization structures for SPL, risks of SPL, adoption strategies for SPL. Credit units: 3 ECTS Credit Units: 6, Prerequisite: CS 319.

CS 419 Information Technology Entrepreneurship

CS 421 Computer Networks
CS 423 Computer Architecture

CS 426 Parallel Computing

CS 432 Machine-to-Machine (M2M) Systems
Introduction to Machine-to-Machine (M2M), Internet of Things (IoT), M2M node manufacturing, M2M node programming, sensors and sensor programming, Global System for Mobile (GSM) modules, GSM programming, Global Positioning System (GPS) module and GPS programming, Smart Cities, Intelligent Operations, End-to-End (E2E) testing. Credit units: 3 ECTS Credit Units: 6. Prerequisite: CS 342. Spr (Ö. Öztürk)

CS 442 Distributed Systems and Algorithms
Fundamentals of distributed systems and algorithms. Theoretical aspects, such as proving program properties, time synchronization, logical clocks, distributed global snapshots, mutual exclusion, consensus, and fault-tolerance. Practical aspects, such as remote procedure calls (RPC), distributed objects, message passing interface (MPI), distributed shared memory (DSM), tuple spaces, distributed file systems such as NFS, web-based systems (DNS, web caching, and content distribution networks (CDNs)), map-reduce systems, key/value stores, BSP (bulk-synchronous processing) style computation, and peer-to-peer systems. Credit units: 3 ECTS Credit Units: 6. Prerequisite: CS 342.

CS 443 Cloud Computing and Mobile Applications
Hands-on introduction to cloud computing and developing mobile applications. Cloud computing services and infrastructures (virtualization, datacenter networking, wide-area storage/replication, distributed filesystems), development tools (MapReduce, Hadoop, OpenStack), fundamental tradeoffs and algorithms (CAP theorem, NoSQL systems, Paxos) and applications (big-data analysis, real-time data systems, large-scale webservises). iOS and Android programming and programming to develop mobile applications with backend storage and computing components running on the cloud (Amazon AWS, Microsoft Azure, or Google AppEngine). Credit units: 3 ECTS Credit Units: 6. Prerequisite: CS 342. Aut (I. Köreöğlu)

CS 458 Software Verification and Validation
Introduction and motivation for verification and validation; software testing overview, fundamentals of test process, general principles of testing, definitions and concepts, testing in software development life cycle, types of testing, levels of testing, test metrics; software inspection and code reviews, technical reviews, pair programming; specification-based testing, input-based partitioning, equivalence class partitioning, boundary value analysis, state transition test, decision table technique, used case testing; structural testing, graph coverage, logic coverage, syntax-based testing, statement coverage, branch coverage, condition coverage, path coverage, instrumentation and tool support; system, acceptance, and regression testing; model-based testing, run-time verification; model-checking, temporal logic in finite-state verification, computational tree logic; safety analysis and software reliability engineering. Credit units: 3 ECTS Credit Units: 6. Prerequisite: CS 319. Spr (B. Tekin-erdoğan)

CS 461 Artificial Intelligence
CS 464  Introduction to Machine Learning
Bayesian decision theory, parametric methods, nonparametric methods, decision trees, linear discrimination, multilayer perceptrons, unsupervised learning and clustering, hidden Markov models, reinforcement learning.  
Credit units: 3 ECTS Credit Units: 6.  Aut (Ö. Taştan Okan) Spr (Ö. Taştan Okan)

CS 465  Computer Graphics I
Credit units: 4 ECTS Credit Units: 6.  Aut (U. Gündüzbay)

CS 468  Principles of User Interface Design
Introduction and basic concepts in man-machine interaction. Principles of operation of interaction hardware and software. Events, event trapping and buffering. Windows, menus, panels; their inter-communication and interaction techniques. Problems of functionality, clarity, complexity and efficiency in designing interfaces. Robustness and error issues related to user interfaces.  
Credit units: 3 ECTS Credit Units: 6.  Aut (T. K. Çapan) Spr (T. K. Çapan)

CS 470  Introduction to Applied Cryptography
Fundamental concepts of cryptography, block ciphers, stream ciphers, cryptographic hash functions, public key encryption, digital signatures, key distribution protocols, authentication systems, security protocol pitfalls, Kerberos, Internet cryptography, IPsec, SSL/TLS, e-mail security.  
Credit units: 3 ECTS Credit Units: 6.  Prerequisite: MATH 132.  Spr (A. A. Selçuk)

CS 473  Algorithms I
Credit units: 3 ECTS Credit Units: 6.  Prerequisite: CS 202.  Aut (C. Aykanat) Spr (U. Doğrusöz)

CS 476  Automata Theory and Formal Languages
Finite automata, regular expressions, regular languages and their properties, the pumping lemma. Context free grammars and languages, normal forms, pushdown automata, the pumping lemma for the CFLs. Turing machines and their properties. Decidability and undecidable languages. Complexity theory, NP-completeness.  
Credit units: 3 ECTS Credit Units: 6.  Prerequisite: CS 201.  Aut (U. Doğrusöz) Spr (C. Alkan)

CS 481  Bioinformatics Algorithms
Credit units: 3 ECTS Credit Units: 6.  Prerequisite: CS 201.  Aut (U. Doğrusöz) Spr (C. Alkan)

CS 484  Image Analysis
Credit units: 3 ECTS Credit Units: 6.  Spr (S. Aksoy)

CS 490  Introduction to Research in Computer Engineering and Science
Introduction to research techniques in computer engineering and science. Working on a research topic as an independent study, under the supervision of a faculty member. Preparation of academic papers to present the results of the study.  
Credit units: 3 ECTS Credit Units: 6.  Prerequisite: CS 315 and CS 319 and CS 342 and CS 353 and EEE 391 and ENG 401 and GE 301 and MATH 230.  Aut (Staff) Spr (Staff)

CS 491  Senior Design Project I
Capstone design project. Technical and innovative group project emphasizing engineering design principles on a specific topic in any field of computer science and engineering. Documentation on the specifications, analysis and the high level design of the project.  
Credit units: 3 ECTS Credit Units: 6.  Prerequisite: CS 202 and CS 319.  Aut (Staff) Spr (Staff)

CS 492  Senior Design Project II
Continuation of the capstone design project started in the CS 491 course, with the same team. Technical and innovative group project emphasizing engineering design principles on a specific topic in any field of computer science and engineering.  
Credit units: 3 ECTS Credit Units: 6.  Prerequisite: CS 202 and CS 319.  Aut (Staff) Spr (Staff)
science and engineering. Documentation on the low level design and the implementation of the project and an oral presentation, including a demo. **Credit units: 3 ECTS Credit Units: 6, Prerequisite: CS 491.**

**Graduate Courses**

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**CS 502 Algorithms II**


**CS 515 Mobile and Wireless Networking**


**CS 519 Cryptography and Network Security**

Fundamental concepts of cryptography, block ciphers, stream ciphers, cryptographic hash functions, differential and linear cryptanalysis, public key encryption, digital signatures, key distribution protocols, key management, authentication systems, security protocol pitfalls, strong password protocols, Kerberos, Internet cryptography, IPsec, SSL/TLS, e-mail security, firewalls. **Credit units: 3 ECTS Credit Units: 7.5.**

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**CS 527 Advances in Switching Networks**


**CS 528 Advances in Switching Networks II**


**CS 531 Advances in Data Management Research**

High dimensional data management (indexing, similarity search, data analytics); bitmap indexing (compression, query processing), data streams, mining multimedia, time-series, and biological data. **Credit units: 3 ECTS Credit Units: 7.5.**

**CS 532 Information Retrieval Systems**

Introduction to information storage and retrieval (IR). IR vs. DBMS. User perspective, search models, evaluation of IR systems. Formal IR models. Data structures and techniques including, inverted files, signature files, information filtering, clustering and cluster-based retrieval, hypertext and multimedia systems. IR and the Internet, browsing strategies, search engines, web robots and intelligent agents. **Credit units: 3 ECTS Credit Units: 7.5.**

**CS 541 Chip Multiprocessors**

Introduction to chip multiprocessor (CMP), multicore and manycore architectures. Instruction level parallelism. Explicit parallelism: Shared instruction processors (SIMP) shared sequencer processors (VLIW), shared network processors (MPP), shared memory processors (SMP). The march to multicore and manycore: Power efficiency, DRAM access latency. Network interfaces: Network topologies, buses, switches, multistage networks, hypercubes. Parallel programming: PThreads, MPI, multicores programming, OpenMP. Parallel programming concepts: Coverage, granularity, locality. Graphics processing unit (GPU): Hardware overview, performance, software environment, programming models, GPU Memory, CUDA, OpenCL. **Credit units: 3 ECTS Credit Units: 7.5.**

**CS 545 Fundamentals of Stream Processing**

Fundamental concepts of stream processing, data flow programming (static, dynamic, and nested composition), large-scale streaming application development (modularity, extensibility, distribution, debugging, and visualization), software architecture for streaming middleware, design principles and patterns for streaming applications (including non-functional topics such as parallelization, load balancing, load shedding, and fault tolerance), and basic stream processing and mining algorithms. A project component helps students gain practical experience with stream processing systems and applications. Paper reviews help follow the latest research in the field. **Credit units: 3 ECTS Credit Units: 7.5.**
CS 550  Machine Learning

CS 551  Pattern Recognition

CS 553  Intelligent Data Analysis
Differences between data and knowledge, assessing knowledge; Data analysis process, methods, tasks and tools; Practical data analysis; Data understanding, attribute understanding, data quality, data visualization, correlation analysis, outlier detection, missing values; Principles of modeling, model classes, fitting criteria and score functions, model fitting, types of errors; Data preparation, feature selection, dimensionality reduction, record selection, improving data quality; Use of machine learning and data mining techniques in intelligent data analysis. Credit units: 3 ECTS Credit Units: 7.5.

CS 554  Computer Vision
Basic concepts in computational vision. Relation to human visual perception. The analysis and understanding of image and video data. Mathematical foundations, image formation and representation, segmentation, feature extraction, contour and region analysis, camera geometry and calibration, stereo, motion, 3-D reconstruction, object and scene recognition, object and people tracking, human activity recognition and inference. Credit units: 3 ECTS Credit Units: 7.5.

CS 555  Computational Systems Biology
Short introduction to molecular biology and systems biologu, gene; protein, function, biological data types; machine learning overview; analyzing and reconstructing biological networks, inferring protein signaling networks, inferring transcriptional regulatory networks, predicting host-pathogen networks; metabolic networks; regulatory motif finding; comparing and searching interaction networks, dynamical networks; annotating and predicting gene function. Credit units: 3 ECTS Credit Units: 7.5. Spr (Ö. Taştan Okan)

CS 558  Data Mining

CS 560  3D User Interfaces
3D virtual reality input and output hardware. 3D interaction techniques. 3D UI toolkits and prototyping techniques. Augmented reality interfaces. usability evaluation of 3D UIs. Credit units: 3 ECTS Credit Units: 7.5.

CS 563  Real-Time 3D Graphics and Game Programming

CS 564  Computational Geometry
Algorithmic background, data structures, geometric preliminaries, models of computation. Geometric searching, point-location, problems, range-searching problems. Convex hulls, problem statement and lower bounds, convex hull algorithms in the plane, graham's scan, Jarvis's march, QUICKHULL techniques, dynamic convex hull, convex hull in 3D. Proximity problem, a collection of problems, a computational prototype: element uniqueness, lower bounds, the closest-pair problem: a divide-and-conquer approach, the Voronoi diagram, proximity problems solved by the Voronoi diagram triangulation, planar triangulations, Delaunay triangulation, intersections, application areas, planar applications: intersection of convex polygons, star-shaped polygons; intersection of line segments. 3D applications: intersection of 3D convex polyhedra; intersection of half-spaces. Credit units: 3 ECTS Credit Units: 7.5. Spr (U. Gündükbay)

CS 565  Application of Computer Graphics
surface problem, motion and animation. Texture mapping, controlled deformations. Previous knowledge of computer graphics is required. Credit units: 3 ECTS Credit Units: 7.5. Aut (B. Özgüç)

CS 567 Computer Animation
Engineering techniques to produce animation, keyframing, morphing, procedural methods, motion capture, and simulation; state-of-the-art research topics in computer animation; dynamic simulation of flexible and rigid objects, automatically generated control systems, and evolution of behaviors. Credit units: 3 ECTS Credit Units: 7.5. Aut (T. K. Çaprı)

CS 568 Advanced Topics in Computer Graphics
Advanced Topics in Computer Graphics, such as simulation of natural phenomena, are discussed. Students are expected to do research on a particular subject, design and implement software, and write a document in an official paper format, discussing the theories, design considerations, and implementation details of their projects. A good prior knowledge of graphics such as formerly having taken CS 466 or CS 565 or CS 567 is expected. Credit units: 3 ECTS Credit Units: 7.5. Aut (T. K. Çaprı)

CS 570 Graph Theory
Fundamental concepts and methods of graph theory and its applications in various areas of computing and the social and natural sciences. Paths and searching, trees, networks, cycles, planarity, matching, and independence. Certain NP-complete graph problems and their approximation algorithms. Special topics such as graph drawing and graph coloring. Introduction to extremal graph theoretical problems. Previous knowledge of algorithms is required. Credit units: 3 ECTS Credit Units: 7.5.

CS 573 Algorithms I

CS 586 Aspect-Oriented Software Development
Advanced software design principles; separations of concerns; coupling and cohesion; software evolution problems; component-oriented software development; examples of crosscutting aspects; aspect-oriented programming using Aspect-J, Composition Filters, Hyper J, Cosmos and Demeter; aspect-oriented modeling; aspects at the requirements and architecture design level; reflection and delegation techniques; composition anomalies; language-based vs. framework-based AOP; interference of aspects Credit units: 3 ECTS Credit Units: 7.5.

CS 587 Model-Driven Software Development
Software evolution problems, motivation for Model-Driven Software Development (MDSD), domain modeling, meta-modeling, model-driven architecture (MDA), model-driven engineering methods, model-to-text transformations, model-to-model transformations, domain specific languages, software factories, MDSD tools, Architecture-Driven Modernization (ADM), adaption strategies for setting up a model-driven approach, obstacles of MDSD. Credit units: 3 ECTS Credit Units: 7.5. Spr (B. Tekinerdoğan)

CS 590 Research Seminar I
Presentation on the preliminary results of the graduate thesis work. Participation in the presentations given by other classmates. Credit units: None ECTS Credit Units: 4. Aut (B. Gedik, Ö. Taştan Okan) Spr (Staff)

CS 599 Master’s Thesis
Credit units: None ECTS Credit Units: 56. Aut (Staff) Spr (Staff)

CS 618 Advanced Cryptographic Protocols
Secret sharing, threshold cryptography, obvious transfer, zero-knowledge proofs, sigma protocols, commitment schemes, secure multiparty computation, homomorphic encryption, e-voting protocols, CPA and CCA security, the random oracle model. Credit units: 3 ECTS Credit Units: 7.5.

CS 681 Advanced Topics in Computational Biology
Methods for genome analyses. Capillary sequencing and next generation sequencing. Read mapping, SNP, indel and structural variation discovery and genotyping. Genome assembly and scaffolding. RNA-RNA interactions. Credit units: 3 ECTS Credit Units: 7.5.
CS 683  Cloud Computing  
The course will cover several aspects of cloud computing, including fundamental tradeoffs in maintaining distributed state (e.g., Consistency-Availability-PartitionTolerance and yield-harvest), services (e.g., datacenter networking, virtualization, load-balancing, Paxos consensus, distributed filesystems, wide-area storage, and replication), programming primitives (e.g., MapReduce, Bloom), and practical systems (e.g., SEDA, Dynamo, Yahoo! Sherpa, BigTable, Dryad, Hadoop). The course will also include a project component where students will develop cloud computing applications or services. Credit units: 3 ECTS Credit Units: 7.5. Spr (İ. Körpeoğlu)

CS 690  Research Seminar II  
Presentation on the preliminary results of the PhD thesis work. Participation in the presentations given by other classmates. Credit units: None ECTS Credit Units: 4. Aut (B. Gedik, Ö. Taştan Okan) Spr (Staff)

CS 699  Ph.D. Dissertation  
Credit units: None ECTS Credit Units: 56. Aut (Staff) Spr (Staff)
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING


Part-time: İ. E. Urgan, N. Yıldırım.

The Department of Electrical and Electronics Engineering offers programs that lead to B.S., M.S., and Ph.D. degrees.

UNDERGRADUATE PROGRAM

Electrical and Electronics Engineering Department has the vision to provide a program of the highest quality to produce leader engineers who can address the challenges of the new century and excel at an international level.

With this vision, the mission is to provide our graduates with the knowledge and skills needed for high quality engineering work as well as advanced engineering research and to equip them with a broad intellectual spectrum in order to prepare them for diverse and competitive career paths.

As individuals and as members of a team, our majors will have successful careers in the academic environment, industrial or government organizations. They will be able to pursue advanced degrees in diverse fields and continue professional development. We prepare our graduates to be able to function in national/international/multi-cultural corporations and organizations.

To meet these objectives, our undergraduate program is built upon a strong analytical foundation in mathematics, science and engineering courses. Upon this foundation, core electrical and electronics engineering background is established. In the fourth year, a variety of elective courses are offered in order to serve technical needs and objectives of students. The program is enriched by providing the student with courses in social sciences, humanities and economics to broaden their intellectual spectrum. In addition, our students are exposed to the professional life with the help of two summer practices. Also, a capstone design sequence is offered to students in the senior year to consolidate their technical knowledge by developing an engineering solution to a problem with multiple realistic constraints.

UNDERGRADUATE CURRICULUM

FIRST YEAR

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<thead>
<tr>
<th>Autumn Semester</th>
<th>Credits / ECTS Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 101 Algorithms and Programming I</td>
<td>4 / 7</td>
</tr>
<tr>
<td>ENG 101 English and Composition I</td>
<td>3 / 6</td>
</tr>
<tr>
<td>GE 100 Orientation</td>
<td>1 / 1</td>
</tr>
<tr>
<td>MATH 101 Calculus I</td>
<td>4 / 7</td>
</tr>
<tr>
<td>PHYS 101 General Physics I</td>
<td>4 / 6</td>
</tr>
<tr>
<td>TURK 101 Turkish I</td>
<td>2 / 1</td>
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<tr>
<th>Spring Semester</th>
<th>Credits / ECTS Credits</th>
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<tbody>
<tr>
<td>CS 102 Algorithms and Programming II</td>
<td>4 / 7</td>
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<tr>
<td>ENG 102 English and Composition II</td>
<td>3 / 6</td>
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<tr>
<td>MATH 102 Calculus II</td>
<td>4 / 7</td>
</tr>
<tr>
<td>PHYS 102 General Physics II</td>
<td>4 / 6</td>
</tr>
<tr>
<td>TURK 102 Turkish II</td>
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SECOND YEAR

<table>
<thead>
<tr>
<th>Autumn Semester</th>
<th>Credits / ECTS Credits</th>
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<tbody>
<tr>
<td>EEE 102 Introduction to Digital Circuit Design</td>
<td>4 / 6</td>
</tr>
<tr>
<td>EEE 211 Analog Electronics</td>
<td>4 / 7</td>
</tr>
<tr>
<td>Course</td>
<td>Code</td>
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<td>------------------------</td>
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</tr>
<tr>
<td>Collegiate Activities Program I</td>
<td>GE 250</td>
</tr>
<tr>
<td>History of Turkey</td>
<td>HIST 200</td>
</tr>
<tr>
<td>Cultures Civilizations and Ideas I</td>
<td>HUM 111</td>
</tr>
<tr>
<td>Engineering Mathematics I</td>
<td>MATH 241</td>
</tr>
<tr>
<td>Circuit Theory</td>
<td>EEE 202</td>
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<tr>
<td>Microprocessors</td>
<td>EEE 212</td>
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<tr>
<td>Collegiate Activities Program II</td>
<td>GE 251</td>
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<tr>
<td>Cultures Civilizations and Ideas II</td>
<td>HUM 112</td>
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<tr>
<td>Engineering Mathematics II</td>
<td>MATH 242</td>
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<td>Unrestricted Elective</td>
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**THIRD YEAR**

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<tr>
<th>Course</th>
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<tr>
<td>Summer Training I</td>
<td>EEE 299</td>
<td>- / 1</td>
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<tr>
<td>Electronic Circuit Design</td>
<td>EEE 313</td>
<td>4 / 7</td>
</tr>
<tr>
<td>Signals and Systems</td>
<td>EEE 321</td>
<td>4 / 7</td>
</tr>
<tr>
<td>Engineering Electromagnetics</td>
<td>EEE 351</td>
<td>3 / 6</td>
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<tr>
<td>Humanities or Social Science Elective</td>
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<tr>
<td>Mathematics / Science Elective</td>
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<td>3 / 6</td>
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<tr>
<td>Feedback Control Systems</td>
<td>EEE 342</td>
<td>3 / 6</td>
</tr>
<tr>
<td>Technical Report Writing and Presentation</td>
<td>ENG 401</td>
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<tr>
<td>Probability and Statistics</td>
<td>MATH 255</td>
<td>4 / 7</td>
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<tr>
<td>Basic Engineering Elective</td>
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<tr>
<td>Humanities or Social Science Elective</td>
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**FOURTH YEAR**

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<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>Summer Training II</td>
<td>EEE 399</td>
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<tr>
<td>Science Technology and Society</td>
<td>GE 301</td>
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<tr>
<td>Elective</td>
<td>EEE Elective</td>
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</tr>
<tr>
<td>Restricted Elective</td>
<td>EEE Restricted Elective</td>
<td>3 / 6</td>
</tr>
<tr>
<td>Mathematics / Science Elective</td>
<td>EEE Mathematics / Science Elective</td>
<td>3 / 6</td>
</tr>
<tr>
<td>Project Elective-I</td>
<td>Project Elective-I</td>
<td>3 / 6</td>
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<tr>
<td>Technology Society and Professional Development Seminar</td>
<td>GE 304</td>
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<tr>
<td>Expanded Electives (2)</td>
<td>EEE Expanded Electives (2)</td>
<td>6 / 12</td>
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<tr>
<td>Restricted Elective</td>
<td>EEE Restricted Elective</td>
<td>3 / 6</td>
</tr>
<tr>
<td>Project Elective-II</td>
<td>Project Elective-II</td>
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<tr>
<td>Unrestricted Elective</td>
<td>Unrestricted Elective</td>
<td>3 / 6</td>
</tr>
<tr>
<td>Electrical and Electronics Engineering Design I</td>
<td>EEE 491</td>
<td>3 / 6</td>
</tr>
<tr>
<td>Innovative Product Design and Development I</td>
<td>GE 401</td>
<td>3 / 6</td>
</tr>
<tr>
<td>Electrical and Electronics Engineering Design II</td>
<td>EEE 495</td>
<td>3 / 6</td>
</tr>
<tr>
<td>Innovative Product Design and Development II</td>
<td>GE 402</td>
<td>3 / 6</td>
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</table>

**EEE ELECTIVE**

<table>
<thead>
<tr>
<th>Course</th>
<th>Code</th>
<th>Credits / ECTS Credits</th>
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</thead>
<tbody>
<tr>
<td>Computer Networks</td>
<td>CS 421</td>
<td>3 / 6</td>
</tr>
<tr>
<td>Computer Architecture</td>
<td>CS 423</td>
<td>3 / 6</td>
</tr>
<tr>
<td>Digital Electronics</td>
<td>EEE 314</td>
<td>4 / 7</td>
</tr>
<tr>
<td>Applied Electromagnetics</td>
<td>EEE 352</td>
<td>3 / 6</td>
</tr>
<tr>
<td>Telecommunication Electronics</td>
<td>EEE 411</td>
<td>4 / 7</td>
</tr>
</tbody>
</table>
Students may take at most two EEE 500 or higher coded courses.

GRADUATE PROGRAMS

Graduate programs focus on those fields which are heavily in demand worldwide. Current research areas are signal and image processing, electronics, optics, acoustics, electromagnetics, nanotechnology, robotics, telecommunications and networks, biomedical engineering, and system and control theory. The department emphasizes research with the support of excellent laboratories, computing facilities, and libraries. These facilities are continuously upgraded through various grants from national and international resources. Currently there are image processing, signal processing, optics, electronics, telecommunications, robotics and control, microwaves and antennas, nanophotonics, and biomedical laboratories.

Master of Science in Electrical and Electronics Engineering

Admission: All applicants are required to have a B.S. degree in electrical and electronics engineering, or in a related field of science or engineering. Students with a B.S. degree in areas other than electrics and electronics engineering may be requested to take several undergraduate courses in the field to acquire the necessary background. Evaluation of applicants is based on their ALES (Akademik Personel ve Lisansıüstü Eğitimi Giriş Sınavı - Academic Personnel and Postgraduate Education Entrance Examination) scores, past academic records, reference letters and an interview. Applicants who are not Turkish citizens and Turkish citizen applicants who are residents of another country may take GRE instead of ALES. All non-native speakers of English are required to submit a proof of satisfactory knowledge of English.

Degree Requirements: In addition to at least 24 credit units of course work, the M.S. degree candidate must prepare and successfully defend a thesis. Expected duration to complete the M.S. program is four semesters; the maximum duration is six semesters.
Master of Science in Electrical and Electronics Engineering - Telecommunications and Networking

Non-thesis M.S. program on Telecommunications and Networking (MSTN) is an interdisciplinary program specifically focusing on the constantly evolving field of information technologies. Graduates of this program are expected to find employment in a broad range of businesses including telecommunications equipment/software manufacturers, internet service providers, wireless network operators, mobile application development businesses, telecommunication chip manufacturers, telecommunications regulatory agencies, and military telecommunication systems development companies. The program is intended for recent graduates as well as engineers who are currently employed by these businesses/organizations and wish to obtain a specialized advanced degree in telecommunications and networking. Students in this program will learn how to become leader engineers in the ever changing world of global information networking, wireless/optical telecommunication systems and technologies. In order to get the MSTN degree, students are required to successfully complete courses from a wide range of subjects in telecommunications, networking, computer science, operations research, management and law related to information technologies.

Admission: All applicants are required to have a B.S. degree in electrical and electronics engineering, or in a related field of science or engineering. Evaluation of applicants is based on their ALES (Akademik Personel ve Lisansüstü Eğitimi Giriş Sınavı - Academic Personnel and Postgraduate Education Entrance Examination) scores, past academic records, reference letters and an interview. Applicants who are not Turkish citizens and Turkish citizen applicants who are residents of another country may take GRE instead of ALES. All non-native speakers of English are required to submit a proof of satisfactory knowledge of English.

Degree Requirements: Students are expected to complete at least ten courses equivalent to at least 30 credit units of course work. Up to three of these courses can be selected from the undergraduate courses in related fields. In addition to these courses, the students should also complete a one-semester project under the supervision of a faculty member in the Department of Electrical and Electronics Engineering. Expected duration to complete the MSTN study is four semesters, and the maximum duration is six semesters.

Doctor of Philosophy in Electrical and Electronics Engineering

Admission: All applicants are required to have a B.S. degree in electrical and electronics engineering, or in a related field of science or engineering. Evaluation of applicants is based on their ALES (Akademik Personel ve Lisansüstü Eğitimi Giriş Sınavı - Academic Personnel and Postgraduate Education Entrance Examination) scores, past academic records, reference letters and an interview. Applicants who are not Turkish citizens and Turkish citizen applicants who are residents of another country may take GRE instead of ALES. All non-native speakers of English are required to submit a proof of satisfactory knowledge of English.

Degree Requirements: 24 credit units of course work beyond the M.S. level or 48 credits of course work beyond the B.S. level is required. PhD candidates must pass a qualifying exam typically on their fourth semester, and then must prepare a thesis work proposal. Preparing and defending a dissertation based on original research is the essence of the program. A dissertation based on original research is the essence of the program. The expected duration to complete the Ph.D. program is eight semesters for students who enter the program after a M.S. degree, and ten semesters for those who enter after a B.S. degree. The maximum durations are 12 and 14 semesters, respectively.

COURSE DESCRIPTIONS

EEE 102 Introduction to Digital Circuit Design
Number systems and conversions, data representation, analysis and design of combinational logic circuits, Boolean algebra, logic gates, minimization techniques, HDL, sequential logic, flip-flops, registers, clocked circuits,
clock generation, counters, shift registers, arithmetic circuits. **Credit units:** 4 ECTS **Credit Units:** 6, **Prerequisite:** CS 101. (E. Atalar) Spr (S. S. Kozat)

**EEE 202 Circuit Theory**
Resistive circuits. Matrix formulation of KCL, KVL. Two ports, circuit theorems, Thevenin and Norton equivalent circuits, superposition. Simple nonlinear circuits. Operational amplifiers. 1st and 2nd order circuits. General circuit analysis. Sinusoidal steady state. Application of Laplace transform to circuits. **Credit units:** 4 ECTS **Credit Units:** 6, **Prerequisite:** EEE 211 and MATH 241. (H. Köymen) Spr (T. Çukuş, O. Morgül)

**EEE 211 Analog Electronics**
Design of an HF radio transceiver using the following topics in the frequency range 100 Hz - 30 MHz: Block diagram concept, passive electronic components (R, L, C, diode, crystals, etc.) and integrated circuits, as active devices; filters, power supplies, audio amplifiers, speakers, microphones, radio amplifiers, oscillators, mixers, noise intermodulation, and antennas. **Credit units:** 4 ECTS **Credit Units:** 7, **Prerequisite:** PHYS 102. (A. Atalar, T. Çukuş, E. Ü. Santos) Spr (E. Ü. Santos)

**EEE 212 Microprocessors**
Introduction to microprocessors and microcontrollers. 8051 microcontroller. 8051 Assembly Language. Input/output interfacing. Timers. Serial Port. Interrupt programming. External Memory Interfacing. **Credit units:** 4 ECTS **Credit Units:** 6, **Prerequisite:** CS 223 or EEE 102. (N. Akar) Spr (N. Akar, T. Çukuş)

**EEE 299 Summer Training I**
A minimum of four weeks summer practice in a company working on fundamental areas of electrical and electronics engineering; observation of company in its original settings and working on projects relevant to the company; submission of a written report. **Credit units:** None ECTS **Credit Units:** 1. (Staff) Spr (Staff)

**EEE 313 Electronic Circuit Design**
Diode circuits. Transistors and biasing. Basic transistor amplifiers. Frequency response. Transistor current sources. Differential amplifiers. Multistage amplifiers. Digital circuits and logic gates. **Credit units:** 4 ECTS **Credit Units:** 7, **Prerequisite:** EEE 202 and EEE 211. (A. K. Okyay, T. Reyhan) Spr (O. Aytür)

**EEE 314 Digital Electronics**
MOSFET digital inverters (VTC & Transients). Principles of CMOS circuits and logic layout design. CMOS Gate Circuits and the Analysis. Junction diodes, switching transient, and diode digital circuits. BJT switching transient & Charge-control analysis. Digital DTL & TTL Gate Circuits. ECL, Schottky) FL, & Bi-CMOS Gates. Regenerative Logic Circuits. Semiconductor Memories and the Circuit Analysis. Sample and Hold Circuits and Data Converters. **Credit units:** 4 ECTS **Credit Units:** 7, **Prerequisite:** EEE 212 and EEE 313. Spr (Y. Z. Çider)

**EEE 321 Signals and Systems**
Basic discrete and continuous signals and systems, linear time-invariant systems, Fourier analysis for continuous and discrete signals and systems, filtering, sampling of continuous time signals, FIR and IIR filters, z-transform, elementary modulation techniques. **Credit units:** 4 ECTS **Credit Units:** 7, **Prerequisite:** EEE 202. (L. Onural) Spr (S. S. Kozat)

**EEE 342 Feedback Control Systems**

**EEE 351 Engineering Electromagnetics**
Review of vector analysis. Static electric fields, electric potential, boundary conditions and capacitances. Steady electric currents. Static magnetic fields, vector magnetic potential, boundary conditions and inductances. Faraday’s law of electromagnetic induction. Maxwell’s equations. Time-harmonic fields. Plane electromagnetic power and Poynting vector. Reflection of plane waves from plane boundaries. **Credit units:** 3 ECTS **Credit Units:** 6, **Prerequisite:** MATH 242 and PHYS 102. (A. Altuntas, V. B. Ertürk) Spr (V. B. Ertürk)

**EEE 352 Applied Electromagnetics**
Review of static electric and magnetic fields. Dielectric and magnetic materials. Electrostatic and magnetostatic energy and forces. Magnetic circuits, transformers and electromagnetic energy conversion. Basic of electric machinery. Review of Maxwell’s equations and plane waves. Reflection and transmission of plane waves at plane boundaries. Transmission lines, Smith chart and impedance matching. Waveguides and cavity resonators. Electromagnetic radiation and antennas. Antenna arrays, effective aperture, Friis transmission formula and radar equation. **Credit units:** 3 ECTS **Credit Units:** 6, **Prerequisite:** EEE 351. Spr (V. B. Ertürk)
EEE 391  Basics of Signals and Systems
Basics of discrete- and continuous-time signals and systems, sinuoids and complex exponentials, phasor representation, spectrum representation, sampling and aliasing, Shannon/Nyquist sampling theorem, finite impulse response (FIR) filters, frequency response of FIR filters, z-transforms, infinite impulse response (IIR) filters, continuous-time signals and systems, linearity, time-invariance, linear time-invariant (LTI) systems, convolution, causality, stability, frequency response of systems, continuous-time Fourier transform. Credit units: 3 ECTS. Credit Units: 6, Prerequisite: MATH 102. Aut (B. Barshan) Spr (B. Barshan)

EEE 399  Summer Training II
A minimum of four weeks summer practice in a company working on fundamental areas of electrical and electronics engineering; observation of company in its original settings and working on projects relevant to the company; submission of a written report. Credit units: None ECTS Credit Units: 1, Prerequisite: EEE 299. Aut (Staff) Spr (Staff)

EEE 411  Telecommunication Electronics

EEE 412  Microwave Electronics
Microstrip and stripline techniques. Transistor and amplifier measurement techniques. Small and large signal high frequency amplifier design. Noise considerations in amplifiers. RF power amplifiers. Neutralization in RF amplifiers. Computer-aided design of amplifiers. Credit units: 4 ECTS Credit Units: 7, Prerequisite: EEE 313 and EEE 351.

EEE 414  Introduction to CMOS VLSI Design
Introduction to CMOS circuits. MOS transistor theory. CMOS processing technology. CMOS circuit characterization. CMOS VLSI circuit design, clocking strategies, case studies. Credit units: 3 ECTS Credit Units: 6, Prerequisite: EEE 313.

EEE 415  Analog CMOS Integrated Circuits
Review of MOS device physics, single stage amplifiers, differential amplifiers, current mirrors, frequency response of amplifiers, Miller effect, noise in amplifiers, feedback, operational amplifiers, slew rate, power supply rejection, stability and frequency compensation, band gap references, switched capacitor circuits, nonlinearities, linearization, offset, oscillators, phase locked loops. Credit units: 3 ECTS Credit Units: 6, Prerequisite: EEE 313.

EEE 418  Principles of Electronic Devices

EEE 419  Power Electronics
Analysis and design of linear regulators, inverters, DC-DC converters, different topologies of converters, efficiencies of power conversion circuits, transformers and magnetic design, power semiconductor devices, power factor and power factor correction. Credit units: 3 ECTS Credit Units: 6, Prerequisite: EEE 313. Spr (A. Atalar)

EEE 424  Digital Signal Processing
Discrete-time signals and systems. Review of the z-transform. DFT and its compilation. Some other linear transform. DCT, DST, Hartley, Hilbert, Walsh, Hadamard, etc. Digital filters (FIR and IIR) and filtering. Introduction to multirate signal processing. Introduction to time-frequency representations. Inverse problems. Credit units: 4 ECTS Credit Units: 7, Prerequisite: EEE 321 and MATH 255. Aut (S. S. Kozat) Spr (A. E. Çetin)

EEE 428  Optics
Geometrical, scalar wave, and electromagnetic wave theories of light. Gaussian beam propagation. Signals and systems concepts for analyzing optical systems (Fourier optics). Interference, diffraction, imaging, frequency domain filtering, and holography. Polarization, propagation in anisotropic media, optical waveguides, fibers, resonators, and their applications. Temporal and spatial coherence. Credit units: 4 ECTS Credit Units: 7, Prerequisite: EEE 321 and EEE 351. Aut (O. Aytür)

EEE 429  Photonics
optics, and their applications. Introduction to nonlinear optics. Credit units: 3 ECTS Credit Units: 6, Prerequisite: EEE 428. Spr (H. Özaktaş)

EEE 431 Telecommunications I

EEE 432 Telecommunications II

EEE 436 Wireless Networking Technologies and Applications

EEE 441 Optimal Control Theory and its Applications
Calculus of variations, necessary conditions of optimality for unconstrained control systems, Pontryagin maximum principle (PMP), numerical solution of two-point boundary-value problems arising from optimal control, multistage systems, discrete-time control systems and optimality conditions, discretization of optimal control problems, implementation with software, Hamilton-Jacobi-Bellman approach, time-optimal control, bang-bang control, state- and control-constrained optimal control. Credit units: 3 ECTS Credit Units: 6, Prerequisite: EEE 431. Spr (T. M. Duman)

EEE 442 Nonlinear Systems

EEE 443 Neural Networks

EEE 444 Robust Feedback Theory

EEE 445 Sampled Data Systems

EEE 446 Control and Optimization of Stochastic Systems
Stochastic stability of dynamical and distributed systems under probabilistic uncertainty. Optimal control problems and dynamic programming. Partially observed models; introduction to filtering and average cost minimization problems. Team decision theory and information structures; static and dynamic teams. Networked control systems, stabilization and optimization. Credit units: 3 ECTS Credit Units: 6, Prerequisite: EEE 342 and MATH 255. Spr (S. Yüksel)

EEE 447 Introduction to Robotics
Robot arm kinematics (forward and inverse kinematics); robot arm dynamics (equations of motion, equivalent formulations); planning of manipulator trajectories; range sensing (time-of-flight and triangulation systems, known target size, optical flow), proximity sensing (optical, magnetic, capacitive, inductive, ultrasonic), tactile (touch) sensing, force and torque sensing, dead reckoning (odometry and inertial sensing); mobile robots (localization,
mapping, path planning, navigation, obstacle avoidance, object classification); multi-sensor data fusion. Credit units: 3 ECTS Credit Units: 6, Prerequisite: MATH 241 and PHYS 102.

EEE 451 Microwave Engineering

EEE 452 Antenna Engineering

EEE 473 Medical Imaging
Fundamentals and applications of four medical imaging techniques: magnetic resonance imaging, ultrasound, nuclear medicine X-ray computed tomography. Credit units: 3 ECTS Credit Units: 6, Prerequisite: EEE 321.

EEE 474 Foundations of Magnetic Resonance Imaging
Basic principles of magnetic resonance imaging (MRI), instrumentation, and various methods used in MRI. Various research areas in this highly active field are discussed. Credit units: 3 ECTS Credit Units: 6, Prerequisite: EEE 321. Spr (E. Atalar)

EEE 480 Advanced Optoelectronics: Innovative Design

EEE 481 Biomedical Signals and Instrumentation
Biophysics of cell membranes, models of neuron membrane potential, Hodgkin-Huxley equations for the action potential, propagation of the action potential, neurocommunication, simple neural networks which explain behavior, volume conductor fields, theory of Electrocardiography (ECG), ECG amplifiers and instrumentation ECG signal processing, EEG, EMG, and other bioelectric signals, model of the cardiovascular system, model of the respiratory system, model of the neurocardiac control system, transducers for bioelectric, cardiovascular and respiratory measurements, preconditng circuits and instrumentation techniques. Credit units: 3 ECTS Credit Units: 6, Prerequisite: EEE 313 and EEE 321 and EEE 351. Aut (Y. Z. İder)

EEE 491 Electrical and Electronics Engineering Design I
A senior design project involving design and implementation of a complete system. Project includes different disciplines such as analog electronic design and digital electronic design employing FPGA, signal acquisition and processing, measurement techniques and telecommunication systems design. The project is divided into 2 or 3 sub projects, each of which is carried out by a member of the team. Project specifications are altered every year. Credit units: 3 ECTS Credit Units: 6, Prerequisite: EEE 212 and EEE 313 and EEE 321. Aut (T. M. Duman, İ. E. Ungan) Spr (T. M. Duman, İ. E. Ungan)

EEE 492 Senior Project
A technical project emphasizing engineering design principles on a specific topic in any field of electrical engineering to be carried out by the senior student under the supervision of a faculty member. Credit units: 3 ECTS Credit Units: 6, Prerequisite: EEE 212 and EEE 313 and EEE 321. Aut (T. M. Duman, İ. E. Ungan) Spr (T. M. Duman, İ. E. Ungan)

EEE 495 Electrical and Electronics Engineering Design II
A technical project on electrical energy distribution system. Preparation of feasibility study for connection of new elements (such as loads, transmission lines, generations, interconnections) to the existing Turkish power grid considering technical rules, economical facts and environmental aspects. Grid simulation using PSSE software. Students are exposed to technical paradigms on comparison of the results, decision making for realization of the best grid performance. Topics include Basic concepts of power system. Components of a power system. Configuration and voltage levels of existing Turkish power system. Daily and yearly load curves, load duration curve of Turkish power system. Generation and load balance of Turkish power system. Power system analysis software to be used in the Project. Advanced studies for system design and testing. Online data acquisition system (SCADA) and on line system analysis programs. Laws and regulations published in order to establish electricity market in Turkey. Turkish electricity sector organization after Electricity Market Law no 4628. Credit units: 3 ECTS Credit Units: 6, Prerequisite: EEE 202. Aut (A. Altıntaş, N. Yıldırım) Spr (A. Altıntaş)
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

GRADUATE COURSES

EEE 501  Linear System Theory

EEE 511  Telecommunication Electronics

EEE 512  Microwave Electronics

EEE 514  Introduction to CMOS VLSI Design
Introduction to CMOS circuits, MOS transistor theory, CMOS processing technology, CMOS circuit characterization, CMOS VLSI circuit design, clocking strategies, case studies. Recent topics and developments in Introduction to CMOS VLSI Design. Credit units: 3 ECTS Credit Units: 7.5.

EEE 515  Analog CMOS Integrated Circuits
Review of MOS device physics, single stage amplifiers, differential amplifiers, current mirrors, frequency response of amplifiers, Miller effect, noise in amplifiers, feedback, operational amplifiers, slew rate, power supply rejection, stability and frequency compensation, bandgap references, switched capacitor circuits, nonlinearities, linearization, offset, oscillators, phase locked loops. Recent topics in CMOS design. Credit units: 3 ECTS Credit Units: 7.5.

EEE 518  Principles of Electronic Devices

EEE 519  Power Electronics
Analysis and design of linear regulators, inverters, DC-DC converters, different topologies of converters, efficiencies of power conversion circuits, transformers and magnetic design, power semiconductor devices, power factor and power factor correction. Credit units: 3 ECTS Credit Units: 7.5. Spr (A. Atalar)

EEE 520  Multirate Signal Processing and Wavelet Theory

EEE 521  Introduction to Radar Signal Processing

EEE 522  Optical Information Processing
Two-dimensional signals and systems. Space-frequency representations. Signal transformations. Linear system formulation of propagation of light through free space, lenses, and lens-like media and their analogy with electrical systems. Analog signal and image processing with optical systems, including transformations, filtering, etc. Alternative mathematical formulations of optical propagation: geometrical optics, scalar wave theory, phase-space approaches, variational and Hamiltonian formulation, operator algebras. Invariants and conservation laws. Credit units: 3 ECTS Credit Units: 7.5. Spr (H. Özaktas)
EEE 523  Speech Processing
Modeling of speech production, short-time Fourier analysis of speech, linear predictive coding (LPC), pitch estimation, code excited linear prediction (CELP) speech synthesis, introduction to speech recognition. Credit units: 3 ECTS Credit Units: 7.5.

EEE 525  Advanced Signal Processing
Signal spaces, signal representation and approximation, wavelets, signal modeling: AR, MA, ARMA models, adaptive filters, iterative and recursive methods in signal processing, spectrum estimation, beam forming and array processing, inverse problems. Credit units: 3 ECTS Credit Units: 7.5. Aut (A. E. Çetin)

EEE 527  Digital Coding of Waveforms
Sampling of band limited waveforms; characteristics of speech and image waveforms; quantization of discrete time signals. Pulse code modulation (PCM), differential PCM. Vector quantization, tree and Trellis coders. Subband coding, KL transform, DCT, DHT, OWHT, transform coding. Run-length coding of binary waveforms. Recent topics on digital coding. Credit units: 3 ECTS Credit Units: 7.5. Aut (A. E. Çetin)

EEE 528  Optics
Geometrical, scalar wave and electromagnetic wave theories of light. Gaussian beam propagation. Signals and systems concepts for analyzing optical systems (Fourier optics). Interference, diffraction, imaging, frequency domain filtering, and holography. Polarization, propagation in anisotropic media, optical waveguides, fibers, resonators, and their applications. Temporal and spatial coherence. recent topics and developments in optics. Credit units: 3 ECTS Credit Units: 7.5. Aut (O. Aytür)

EEE 529  Photonics

EEE 530  Digital Communications Theory

EEE 533  Random Processes

EEE 534  Wireless Communications

EEE 536  Internet Architecture and Protocols

EEE 538  Communication Network Analysis

EEE 539  Detection and Estimation Theory

EEE 541  Optimal Control Theory and its Applications
Calculus of variations, necessary conditions of optimality for unconstrained control systems, Pontryagin maximum principle (PMP), numerical solution of two-point boundary-value problems arising from optimal control, multistage systems, discrete-time control systems and optimality conditions, discretization of optimal control problems,
implementation with software, dynamic programming, Hamilton-Jacobi-Bellman approach, time-optimal control, bang-bang control, state- and control-constrained optimal control. Credit units: 3 ECTS Credit Units: 7.5. Spr (Staff)

EEE 542 Nonlinear Systems

EEE 543 Neural Networks

EEE 544 Robust Feedback Theory

EEE 545 Sampled Data Systems

EEE 546 Control and Optimization of Stochastic Systems
Stochastic stability of dynamical and distributed systems under probabilistic uncertainty. Optimal control problems and dynamic programming. Partially observed models; introduction to filtering and average cost minimization problems. Team decision theory and information structures; static and dynamic teams. Networked control systems, stabilization and optimization. Credit units: 3 ECTS Credit Units: 7.5. Spr (S. Yüksel)

EEE 547 Introduction to Robotics
Robot arm kinematics (forward and inverse kinematics); robot arm dynamics (equations of motion, equivalent formulations); planning of manipulator trajectories; range sensing (time-of-flight and triangulation systems, known target size, optical flow), proximity sensing (optical, magnetic, capacitive, inductive, ultrasonic), tactile (touch) sensing, force and torque sensing, dead reckoning (odometry and inertial sensing); mobile robots (localization, mapping, path planning, navigation, obstacle avoidance, object classification); multi-sensor data fusion. Credit units: 3 ECTS Credit Units: 7.5.

EEE 549 Nanoscale Fabrication Technologies for Semiconductors
Nanoscale fabrication methods used for semiconductor devices and VLSI technology. Review of Semiconductor Technology, Review of Semiconductor Device Physics, Outline of a nanoscale CMOS fabrication process, Crystal Growth, Semiconductor Manufacturing, Cleanrooms and wafer cleaning, Nanolithography, Oxidation, Diffusion, Ion Implantation, Thin film deposition, Etching, and Backend technology. Credit units: 3 ECTS Credit Units: 7.5. Aut (E. Özbay)

EEE 550 Nanoelectronic Devices : Physics and Technology
Semiconductor electronics technology, overview of fabrication methods, physics of semiconductors in equilibrium and non-equilibrium, movement of free carriers in semiconductors, p-n and metal-semiconductor junctions, heterojunctions and quasi-electric fields, basic quantum mechanics for nanoscale semiconductor structures and quantum-effect devices, metal-oxide-semiconductor capacitor and MOS transistors, bipolar junction transistors, field effect transistors and nanowire FETs, high electron mobility transistors, resonant tunneling in semiconductor nanostructures, transistor scaling issues, ballistic transport and ballistic transistors, graphene transistors. Credit units: 3 ECTS Credit Units: 7.5. Spr (E. Özbay)

EEE 551 Microwave Engineering

EEE 552 Antenna Engineering
Moment methods. Radio wave propagation. Recent topics on antenna engineering. Credit units: 3 ECTS
Credit Units: 7.5. Spr (V. B. Ertürk)

EEE 554 High Frequency Techniques in Electromagnetics
High frequency solutions to Maxwell’s equations. Geometrical optics (GO), the geometrical theory of
diffraction (GTD), the uniform geometrical theory of diffraction (UTD), equivalent current methods (ECM) and their
applications. Aperture integration, physical theory of diffraction (PTD), Curved surface diffraction. Credit units: 3 ECTS
Credit Units: 7.5.

EEE 556 Computational Methods in Electromagnetics
Classification of Electromagnetics Problems, Finite Difference Schemes, Finite Difference Time Domain Method,
Finite Element Method, Method of Moments. Credit units: 3 ECTS Credit Units: 7.5.

EEE 557 Acoustic Waves and Devices
Plane waves in fluids, acoustic wave equation; transient and steady-state reflection and transmission; lumped
elements; refraction; strings, membranes, and cavities; ray acoustics; absorption and dispersion; source theory;
vibrating piston, transducers; diffraction. Credit units: 3 ECTS Credit Units: 7.5.

EEE 558 Electroacoustic Transduction
Introduction to acoustics, wave equation, propagation basics. Piezoelectricity, piezoelectric materials, constitutive
equations. Electric field, stress, strain, tensors. Resonance modes and lumped element modeling of piezoelectric
materials. Application of circuit theory and microwave theory to transducers. Piezoelectric piston transducer
and hydrophone design, transducer passive materials. Transducer measurements Radiation impedance and its
interaction with transducer, radiated and reactive power, energy Performance: coupling coefficient, bandwidth,
efficiency, noise Capacitive Transducers: Electrodynamic transduction Radiation impedance, surface particle
velocity profile and radiation impedance interrelations. Credit units: 3 ECTS Credit Units: 7.5. Spr (H. Köymen)

EEE 560 Nanoengineering and Nanodevices
Fundamentals of nanophotonics and nanoelectronics, with emphasis on applications in modern semiconductor
devices based on quantum properties of light and matter. Review of Maxwell’s equations, light propagation,
and reflection from dielectrics, plasmonics, surface plasmons, localized plasmons, plasmonic devices and sensors,
plasmonic waveguides, photonic crystals, elements of quantum mechanics, quantum confined structures, simple
periodic structures, tunneling, semiconductor fundamentals, particle motion and effective mass, carrier statistics,
basis of field effect transistor (FET) operation, FET scaling issues, modern FETs and architectures, thin film
transistors (TFTs). Credit units: 3 ECTS Credit Units: 7.5. Spr (A. K. Okay)

EEE 573 Medical Imaging
Fundamentals and applications of four medical imaging techniques: magnetic resonance imaging, ultrasound,
nuclear medicine X-ray computed tomography. Credit units: 3 ECTS Credit Units: 7.5.

EEE 574 Foundations of Magnetic Resonance Imaging
Basic principles of magnetic resonance imaging (MRI), instrumentation, and various methods used in MRI.
Various research areas in this highly active field are discussed. Credit units: 3 ECTS Credit Units: 7.5. Spr (E. Atalar)

EEE 580 Advanced Optoelectronics: Innovative Design
Review of physics of optoelectronic devices. Heterostructures, Optical absorption, emission and refraction
switches. Integrated photonic devices. Innovative optoelectronic devices. Credit units: 3 ECTS Credit Units:
7.5. Spr (H. V. Demir)

EEE 581 Biomedical Signals and Instrumentation
Biophysics of cell membranes, models of neuron membrane potential, Hodgkin-Huxley equations for the ac-
tion potential, propagation of the action potential, neurocommunication, simple neural networks which explain
behavior, volume conductor fields, theory of Electrocardiography (ECG), ECG amplifiers and instrumentation,
ECG signal processing, EEG, EMG, and other bioelectric signals, model of the cardiovascular system, model of
the respiratory system, model of the neurocardiac control system, transducers for bioelectric, cardiovascular an
respiratory measurements, preconditioning circuits and instrumentation techniques. Recent topics and develop-
ments in biomedical signals and instrumentation. Credit units: 3 ECTS Credit Units: 7.5. Aut (V. Z. Ider)

EEE 591 Graduate Seminar I
Seminars on recent topics in electrical and electronics engineering. Credit units: None ECTS Credit Units: 2
Aut (E. Ü. Santos) Spr (T. Çukur)

EEE 592 Graduate Seminar II
Seminars on recent topics in electrical and electronics engineering. Credit units: None ECTS Credit Units: 2.
Aut (E. Ü. Santos) Spr (T. Çukur)
EEE 596  Graduate Research Project in Telecommunications and Networking
A technical project emphasizing engineering design principles on telecommunications or networks to be carried out by the graduate student under the supervision of a faculty member. Credit units: None ECTS Credit Units: 10. Aut (N. Akar, E. Karaslan)

EEE 599  Master’s Thesis
Credit units: None ECTS Credit Units: 56. Aut (Staff) Spr (Staff)

EEE 603  Advanced Electromagnetic Theory I

EEE 604  Advanced Electromagnetic Theory II

EEE 633  Coding Theory
Error correction techniques used to protect digital information against noise. (i) Algebraic coding techniques, including BCH and RS codes and the Berlekamp-Massey decoding algorithm. (ii) Convolutional codes and the Viterbi decoding algorithm. (iii) Turbo and LDPC codes and the message passing decoding algorithm. Credit units: 3 ECTS Credit Units: 7.5.

EEE 634  Information Theory
Fundamental information-theoretic concepts: Entropy, mutual information, asymptotic equipartition property. Lossless data compression: Kraft inequality, Huffman codes. Shannon’s coding theorem. Gaussian channel capacity. Network information theory: Multiple user channel capacity. Lossy data compression: Rate distortion theory. Credit units: 3 ECTS Credit Units: 7.5. Spr (E. Arikan)

EEE 699  Ph.D.Dissertation
Credit units: None ECTS Credit Units: 56. Aut (Staff) Spr (Staff)
The Department of Industrial Engineering offers B.S., M.S. and Ph.D. degrees in Industrial Engineering.

UNDERGRADUATE PROGRAM

Industrial Engineering (IE) is the scientific discipline that is concerned with how best to organize people, information, money, and materials to produce and distribute services and products efficiently. It draws upon specialized knowledge and skills in the mathematical, physical, and social sciences together with the principles and methods of engineering analysis and design to specify, predict, and evaluate the results to be obtained from such systems.

The mission of the Industrial Engineering Program is to foster a world-class academic environment for industrial engineering research and education in collaboration with industry. The department is committed to graduate competent industrial engineers equipped with the proficiency to adapt to technological and societal changes, and who are poised to excel in the field. The educational objectives are: 1) Graduates will solve problems in their respective professional domains by applying industrial engineering knowledge and skills, such as analytical and systems thinking. 2) Graduates will participate actively in functions such as analysis, design, implementation and improvement of systems in manufacturing or service sectors. 3) Graduates will engage in advanced degree programs or continue professional development via workshops, training programs, license certifications, or independent studies.

A necessary condition for the realization of this goal is to provide a solid preparation in foundations through courses in mathematics, computers, and basic sciences. The undergraduate IE curriculum is well supplemented in such foundational courses. To this is added a solid preparation in fundamentals of engineering through various specialized courses. Through the course work, the student acquires the necessary skills in modeling and analysis of engineering systems and learns to develop insightful approaches to problem solving. With a number of technical elective courses, students build up additional strength in engineering. To provide the student with a broad intellectual spectrum, electives in economics, social sciences and humanities are offered. Additional courses in communication, history, and professional ethics help develop self-confidence, articulation skills, and professional attitude in business and social environments. A special research course at the senior level allows higher achieving students to participate in a research project under the guidance of a faculty member. Design experience is incorporated in the courses as the student progresses through the program. A capstone two course sequence in system design in the fourth year gives the student the experience of how to integrate and use in creative ways the various modeling skills and analysis techniques he/she has acquired in designing real world manufacturing or service systems. This course sequence addresses real world problems supplied each year to the department by various companies in Turkey. These problems are studied and solved by students under the guidance of company officials and faculty members from the department. This hands-on experience gives students the unique opportunity to work on challenging problems and produce solutions of good quality within an imposed deadline.

UNDERGRADUATE CURRICULUM

FIRST YEAR

<table>
<thead>
<tr>
<th>Autumn Semester</th>
<th>Credits / ECTS Credits</th>
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</thead>
<tbody>
<tr>
<td>ENG 101 English and Composition I</td>
<td>3 / 6</td>
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<tr>
<td>GE 100 Orientation</td>
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### HIST 200 History of Turkey ................................................................. 4 / -
MATH 101 Calculus I ................................................................. 4 / 7
PHYS 101 General Physics I ..................................................... 4 / 6
TURK 101 Turkish I ................................................................. 2 / 1

#### Spring Semester

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<tr>
<th>Course</th>
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<tbody>
<tr>
<td>ENG 102 English and Composition II</td>
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<tr>
<td>IE 102 A Process Outlook for Industrial Engineering</td>
<td>3 / 6</td>
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<tr>
<td>MATH 102 Calculus II</td>
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<tr>
<td>PHYS 102 General Physics II</td>
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<tr>
<td>TURK 102 Turkish II</td>
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<tbody>
<tr>
<td>CS 113 Introduction to Computing for Engineers</td>
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<td>GE 250 Collegiate Activities Program I</td>
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<tr>
<td>HUM 111 Cultures Civilizations and Ideas I</td>
<td>3 / 4</td>
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<tr>
<td>IE 262 Manufacturing Processes</td>
<td>4 / 6</td>
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<tr>
<td>MATH 225 Linear Algebra and Differential Equations</td>
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<tr>
<td>MATH 250 Introduction to Probability</td>
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<td>HUM 112 Cultures Civilizations and Ideas II</td>
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<tr>
<td>IE 202 Introduction to Modeling and Optimization</td>
<td>3 / 6</td>
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<tr>
<td>IE 271 Operations Analysis and Design</td>
<td>3 / 6</td>
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<tr>
<td>MATH 260 Introduction to Statistics</td>
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### Second Year

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<tr>
<th>Course</th>
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<tbody>
<tr>
<td>CS 281 Computers and Data Organization</td>
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<tr>
<td>ECON 207 Economics Theory for Engineers</td>
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<tr>
<td>GE 301 Science Technology and Society</td>
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<tr>
<td>GE 325 Stochastic Models</td>
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<tr>
<td>GE 375 Production Planning</td>
<td>3 / 6</td>
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<tr>
<td>IE 299 Summer Training I</td>
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<tr>
<td>IE 303 Modeling and Methods in Optimization</td>
<td>3 / 6</td>
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<tr>
<td>IE 325 Systems Analysis for Design</td>
<td>3 / 6</td>
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<tr>
<td>IE 375 Production Planning</td>
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#### Spring Semester

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<tr>
<th>Course</th>
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<tbody>
<tr>
<td>ENG 401 Technical Report Writing and Presentation</td>
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<tr>
<td>IE 324 Simulation</td>
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<tr>
<td>IE 342 Engineering Economic Analysis</td>
<td>3 / 6</td>
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<tr>
<td>IE 376 Production Information Systems</td>
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<tr>
<td>IE 380 Quality Assurance and Reliability</td>
<td>3 / 6</td>
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<td>IE Restricted Elective</td>
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<td>IE 399 Summer Training II</td>
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<tr>
<td>IE 376 Production Information Systems</td>
<td>3 / 7</td>
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<tr>
<td>IE Restricted Electives (2)</td>
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#### Autumn Semester

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<td>IE 496 Seminar in Production Systems</td>
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<td>IE Restricted Elective</td>
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</table>
ELECTIVE COURSES
A list of approved elective courses is announced at the beginning of each semester by the department. Humanities/Social Sciences electives are any approved courses offered by the Faculty of Humanities and Letters or the Faculty of Art, Design and Architecture or the Faculty of Economics, Administrative, and Social Sciences. Breadth electives are any approved courses offered by the Faculty of Engineering, Faculty of Science, Faculty of Economics, Administrative, and Social Sciences or the Faculty of Business Administration.

GRADUATE PROGRAMS
The overall objective of the graduate programs in the department is to conduct fundamental research in industrial engineering and operations research in accordance with scientific and technological developments, and to provide the students with a strong analytical basis for advanced theoretical work or for development of new approaches to applications. Current research areas are optimization theory/mathematical programming (linear and non-linear optimization, combinatorial and integer optimization, graph theory and network optimization, large scale optimization, optimization under uncertainty), stochastic systems (queueing models, maintenance, inventory control, modeling and optimization), simulation, statistics (estimation in stochastic systems, nonparametric analysis, Bayesian methods, data analysis), manufacturing systems (advanced manufacturing technologies, robotics, flexible manufacturing systems, micro/nano technologies, modeling and analysis of production systems), supply chain management and logistics, pricing and revenue optimization, scheduling, production planning and control systems, operations research methods in finance and energy, sustainable operations.

Master of Science in Industrial Engineering
Admission: All applicants are required to have a B.S. degree in industrial engineering, or in a related field of science or engineering. Students with a B.S. degree in areas other than industrial engineering may be requested to take several undergraduate courses in the field to acquire the necessary background. Evaluation of applicants is based on their ALES (Akademik Personel ve Lisansüstü Eğitimi Giriş Sınavı - Academic Personnel and Postgraduate Education Entrance Examination) scores, past academic records, reference letters and an interview. Applicants who are not Turkish citizens and Turkish citizen applicants who are residents of another country may take GRE instead of ALES. All non-native speakers of English are required to submit a proof of satisfactory knowledge of English.

Degree Requirements: In addition to at least 24 credit units of course work, the M.S. degree candidate must prepare and successfully defend a thesis. Expected duration to complete the M.S. program is four semesters; the maximum duration is six semesters.

Doctor of Philosophy in Industrial Engineering
Admission: All applicants are required to have a B.S. degree in industrial engineering, or in a related field of science or engineering. Evaluation of applicants is based on their ALES (Akademik Personel ve Lisansüstü Eğitimi Giriş Sınavı - Academic Personnel and Postgraduate Education Entrance Examination) scores, past academic records, reference letters and an interview. Applicants who are not Turkish citizens and Turkish citizen applicants who are residents of another country may take GRE instead of ALES. All non-native speakers of English are required to submit a proof of satisfactory knowledge of English.

Degree Requirements: 24 credit units of course work beyond the M.S. level or 48 credits of course work beyond the B.S. level is required. PhD candidates must pass a qualifying exam typically on their fourth semester, and then must prepare a thesis work proposal. Preparing and defending a dissertation based on original research is the essence of the program. A dissertation based on original research is the essence of the program. The expected duration to complete the
DEPARTMENT OF INDUSTRIAL ENGINEERING

Ph.D. program is eight semesters for students who enter the program after a M.S. degree, and ten semesters for those who enter after a B.S. degree. The maximum durations are 12 and 14 semesters, respectively.

COURSE DESCRIPTIONS

UNDERGRADUATE COURSES

IE 102  A Process Outlook for Industrial Engineering
Familiarize the IE freshmen with the profession by introducing the basic notion of process. Design of processes and process improvements. Notions of performance evaluation. Processes, performance and their relations to decision making. Mathematical representation of the decision making. Demonstration using simple examples from daily life as well as more complicated examples from industry. Credit units: 3 ECTS Credit Units: 6. Spr (N. Erkip)

IE 202  Introduction to Modeling and Optimization

IE 262  Manufacturing Processes

IE 271  Operations Analysis and Design
Introduction to traditional industrial engineering. Concepts and functions in the design, improvement, and analysis of man - machine systems mainly in the context of a manufacturing environment. Design and improvement of manufacturing systems. Time study, work measurement, material handling systems, and layout design. A term project on simulating manufacturing systems. Credit units: 3 ECTS Credit Units: 6. Prerequisite: IE 262. Spr (Y. Karpat, A. S. Kocaman)

IE 299  Summer Training I
A minimum of four weeks summer practice in a manufacturing organization; observation of organization in its original settings; written report. Credit units: None ECTS Credit Units: 1. Prerequisite: IE 271. Aut (E. Nadar) Spr (E. Nadar)

IE 303  Modeling and Methods in Optimization
Extension of linear programming to different methodologies including network models, integer programming and dynamic programming. Discrete optimization: local search heuristics. Credit units: 3 ECTS Credit Units: 6. Prerequisite: IE 202. Aut (M. C. Pinar, H. Yaman Paternotte) Spr (H. Yaman Paternotte)

IE 324  Simulation
Use and misuse of simulation as a decision tool. The design and analysis of simulation. The use of simulation for estimation, and comparison of policies. Emphasis is primarily on applications in the areas of production management. Topics include modeling and programming simulations, random number and variate generation, statistical analysis of simulation output data. Credit units: 4 ECTS Credit Units: 7. Prerequisite: MATH 260 and (CS 112 or CS 102 or CS 114). Aut (K. Gökbayrak) Spr (A. E. Akçay, Ö. Çavuş, K. Gökbayrak)

IE 325  Stochastic Models

IE 342  Engineering Economic Analysis
Analysis of engineering decisions; principles and methodology of comparing decision alternatives, such as various engineering designs, manufacturing equipment, or industrial projects. Dealing with uncertainty and risk; rational decision making when future outcomes are uncertain. Concepts of time value of money. Effects of depreciation, inflation, and taxation on economic decisions. Cost-benefit analysis of public projects. Replacement analysis. Introduction to financial engineering. Credit units: 3 ECTS Credit Units: 6. Aut (H. Toyoğlu) Spr (O. Oğuz, H. Toyoğlu, O. Vicil)

IE 375  Production Planning
Design of production planning systems using mathematical, computational and other modern analytical techniques. Areas investigated will include forecasting; integrated production-inventory systems; deterministic inven-

IE 376 Production Information Systems
The role of computers and data bases in production systems. Fundamental concepts in developing integrated production management systems including ERP, lean production and JIT with emphasis on inventory, lead time, work-order management, shop floor control and group technology based parts classification and coding systems. Credit units: 3 ECTS Credit Units: 7. Prerequisite: IE 202. Spr (M. S. Aktürk, A. Şen)

IE 380 Quality Assurance and Reliability
Concepts and statistical methods employed in the assurance of product conformance to specification limits. Emphasis is planned to statistical process control, total quality management, acceptance sampling, process design and reliability. Credit units: 3 ECTS Credit Units: 6. Prerequisite: MATH 260. Spr (Ü. Gürler, E. Nadar, A. Toptal Bilhan)

IE 399 Summer Training II
A minimum of four weeks summer practice in a manufacturing or service organization; formulation of an IE problem and propose solutions to it; written report. Credit units: None ECTS Credit Units: 1. Prerequisite: IE 299. Aut (Y. Karpat) Spr (Y. Karpat)

IE 400 Principles of Engineering Management
Introduction to management analysis such as management layers, network analysis, project management via CPM/PERT networks, optimization concepts, linear programming, integer programming, and decision analysis; and economic concepts such as cash flow, interest rates, rate of return, demand supply relations, product pricing, taxes, inflation, and related subjects. Credit units: 3 ECTS Credit Units: 6. Prerequisite: IE 202. Aut (O. Çağlı, O. Vicil, B. Yetiş) Spr (O. Vicil)

IE 420 Heuristics in Optimization
Fundamental concepts of heuristics in solving various optimization problems with emphasis on meta-heuristics such as simulated annealing, tabu search, genetic algorithms, and ant algorithms. The basic material on heuristics will be covered in regular lectures. The students will be required to present a variety of application papers on different subjects related to the course. In addition, as a project assignment, the students will design a heuristic, write a code of an appropriate algorithm for the problem and evaluate its performance. Credit units: 3 ECTS Credit Units: 6.

IE 423 Forecasting Methods and Applications
Basic quantitative methods of forecasting are introduced. Time series decomposition, Regression methods, exponential smoothing and ARIMA models will be covered. Judgemental forecasting will also be briefly mentioned. Applications in Engineering will be emphasised. Credit units: 3 ECTS Credit Units: 6. Prerequisite: MATH 260.

IE 427 Introduction to Defense Analysis
Introduction to military operations research; firing theory, detection, sensors, search and screening, target defense, attrition models, force disposition and unmanned aerial vehicles. Contemporary issues such as the effect of information and technology in the presence of guided munitions and sensors. Credit units: 3 ECTS Credit Units: 6. Prerequisite: IE 202. Spr (Staff)

IE 428 Project Scheduling

IE 435 Managing Supply Chains: A Problem-Based Learning Approach
Study of the management of materials, information, and financial flows in a network consisting of suppliers, manufacturers, distributors, and customers. Topics covered include logistics network configuration; risk pooling; multi-echelon inventory systems; value of information in supply chains; coordination of the supply chain using contracts and other mechanisms; distribution strategies for the supply chain; and issues related to product design. Limited enrollment. This Bilkent course is offered via video-conference with three other universities: Yale (USA), Ben Gurion (Israel), and Maastricht (Netherlands). Six students will be admitted from each university, making up a total student body of 24. The class will then be divided into 6 teams, each team consisting of 4 students (one from each university), for discussion, writing, and presenting case studies. Bilkent students will meet on-campus on Mondays for lectures that will be video-conferenced from Yale. Tuesday, Wednesday, and Thursday meetings will be online with teammates from the other three universities. Friday meetings will be on-campus for a review of that week’s work with fellow Bilkent students. Credit units: 3 ECTS Credit Units: 6. Prerequisite: MATH 260.
IE 440  Introduction to Financial Engineering
Financial markets (bonds, stocks, futures, forwards, options, interest rates and their term structures), models of security prices (Brownian motion, geometric Brownian motions, Ornstein-Uhlenbeck processes, Cox-Ross-Rubinstein binomial model, Merton-Black-Scholes model), pricing and hedging financial derivatives (Ito’s rule, stochastic integration, diffusion processes, probabilistic solutions of PDEs, no-arbitrage pricing in a complete market of futures, forwards, European and American type options, pricing in incomplete markets), Hedging with futures and options, bond hedging, numerical methods (pricing using trees, Monte-Carlo simulations, finite-difference methods), mean-variance analysis of portfolios, value at risk, optimal consumption and portfolio strategies (formulations and solutions of appropriate dynamic programming models and Hamilton-Jacobi-Bellman equations). Credit units: 3 ECTS Credit Units: 6, Prerequisite: MATH 250.

IE 441  Cost Analysis and Control

IE 443  Multi-Objective Decision Analysis
Quantitative decision analysis. Structuring of objectives and value hierarchies, and determination of value functions. Introduction to consistent characterization of preferences under certainty. Value analysis under uncertainty including expected value analysis, utility theory, multi-attribute risk aversion, certainty equivalent calculations and the analytical hierarchy process. Credit units: 3 ECTS Credit Units: 6, Prerequisite: IE 202. Aut (I. Akgun) Spr (I. Akgun)

IE 444  Operations Research in Finance
Bonds, interest rates, duration and convexity, bond portfolios, options, binomial model, early exercise options, dynamic programming in finance, portfolio optimization value-at-risk, robust portfolio optimization. Credit units: 3 ECTS Credit Units: 6, Prerequisite: IE 202.

IE 451  Applied Data Analysis
Introduction to exploratory data analysis, multivariate regression, semiparametric regression, scatterplot smoothing, linear mixed models, generalized linear models, recursive partitioning, and hidden Markov models through the applications on real data sets using the statistical software R. Applications to consumer choice models, modeling the number of emergency room visits, building e-mail spam filters, detecting fraudulent transactions, and other applications from manufacturing and service systems illustrating big data analytics. Credit units: 3 ECTS Credit Units: 6, Prerequisite: MATH 260. Spr (S. Dayanik)

IE 453  Energy Systems Planning
Historical trends of energy supply and demand; alternative energy resources and related technologies. Global climate change, security, reliability and economic issues in energy operations and planning problems. Energy demand and supply forecasting, energy modeling under uncertainty, intermittency and role of storage, grid operations and reliability, smart grid, and generation expansion planning. Case studies and problem solving techniques and methods applied in the pursuit of improved decision making in energy systems. Credit units: 3 ECTS Credit Units: 6, Prerequisite: IE 202. Spr (A. S. Kocaman)

IE 455  Service Systems
Service systems are gaining growing importance in today’s economy. Examples of service industries are health-care, banking and finance, IT, telecommunication, tourism, transportation, logistics, and emergency services. What primarily distinguishes these systems from manufacturing industries is the level and quality of interaction with customers. This course describes the strategic and operational aspects of managing service systems, and focuses on OM/OR techniques that are useful in the design and analysis of such systems. The emphasis is on modeling and solving the models; specific examples related to certain sectors of the service industry are also covered. Credit units: 3 ECTS Credit Units: 6.

IE 457  Sustainable Operations
IE 460  Quantitative Models in Supply Chain Management
Economies of scale in the supply chain, quantity and transportation discounts. Multi-stage inventory and production systems, risk pooling, decentralized and centralized modeling approaches, bullwhip effect. Supply chain coordination, strategic games in supply chains, and contracting. More complicated examples from industry. Credit units: 3 ECTS Credit Units: 6, Prerequisite: IE 375.

IE 463  Operations Scheduling
Introduction to scheduling. Exact and approximate techniques and approaches to modeling and solving problems from a variety of manufacturing and service applications including production scheduling, assembly systems, reservation systems, timetabling problems, and workforce and crew scheduling. Overview of the current trends and future directions. Credit units: 3 ECTS Credit Units: 6, Prerequisite: IE 303 and IE 375.

IE 464  Inventory Planning Models
Inventory control models in service and manufacturing environments. Introduction to single-item and multi-item inventory models. Extensions of economic-order-quantity model, power-of-two type policies, coordinated replenishment, economic lot scheduling problem, (r, Q) policies, (s, S) policies, models with lost sales, exchange curves, and multi-period problems. Credit units: 3 ECTS Credit Units: 6, Prerequisite: IE 375.

IE 467  Emerging Trends in Manufacturing
Advanced manufacturing processes such as micro/nano manufacturing from industrial engineering perspective is the main subject of this course. Emphasis is given on process modeling and optimization. Sustainability, a recent challenge in manufacturing is also covered through illustrative case studies. Credit units: 3 ECTS Credit Units: 6, Prerequisite: IE 375.

IE 468  Pricing and Revenue Optimization
Pricing and revenue optimization focuses on how a firm should set and update pricing and product availability decisions in order to maximize its profitability. This course introduces the theory, concepts and applications of pricing and revenue optimization. The topics include a review of price-demand functions, price differentiation, pricing under constrained supply, revenue management, capacity allocation, multi-item revenue management, overbooking and dynamic pricing and markdown management. Credit units: 3 ECTS Credit Units: 6, Prerequisite: IE 202 and MATH 260. Aut (A. Şen) Spr (Staff)

IE 469  Industrial Applications of Operations Research
Survey of optimization models in manufacturing, logistics and project management. Applications to real production contexts in project management, lot sizing, location, finite-capacity scheduling, and cutting stock. Use of Excel optimization tools. Credit units: 3 ECTS Credit Units: 6.

IE 477  Production Systems Design-Synthesis
Project team work dealing with open-ended, interdisciplinary real-world problems. Analysis of real-world problems; design, implementation and testing procedures. Project skills, including problem definition, functional design specifications, conceptualization, analysis, and solution methods. Team dynamics, communication skills, time-management issues. Credit units: 3 ECTS Credit Units: 6, Prerequisite: IE 325 and IE 375. Aut (K. Gökbayrak, E. Nadar, O. Oğuz)

IE 478  Production Systems Design-Practice
Continuation of the IE 477 course. Validation, verification and implementation of the developed methodologies. Credit units: 3 ECTS Credit Units: 6, Prerequisite: IE 477. Spr (K. Gökbayrak, E. Nadar, O. Oğuz)

IE 479  Distribution Logistics
Logistics network design; strategic, tactical, operational level decision making; location models, planning and controlling freight transportation; long-haul, short-haul, practical examples; projects and case studies. Credit units: 3 ECTS Credit Units: 6, Prerequisite: IE 202. Aut (B. Yetiş)

IE 482  Humanitarian Logistics
Introduction to humanitarian operations; decision problems related to meeting the ongoing needs of the society; relief logistics; disaster management cycle; decision problems faced in preparing for, responding to, and recovering from disasters; the activities and challenges in the supply chain for the procurement, delivery, warehousing and distribution of the aid; practical examples, projects and case studies. Credit units: 3 ECTS Credit Units: 6, Spr (B. Yetiş)

IE 485  Decision Making in Health Care
Applications of decision sciences in health-care industry; methods to allocate health-care resources; decision making for health economics and medicine; decision analysis using Markov processes, Monte Carlo simulations; cost-effectiveness analysis; quality-adjusted life years. Credit units: 3 ECTS Credit Units: 6.

IE 490  Introduction to Research in IE and OR
Introduction to research techniques in industrial engineering and operations research. Independent study under the supervision of a departmental faculty member. Written and oral presentations to report research findings. Credit units: 3 ECTS Credit Units: 6, Aut (A. Toptal Bilhan) Spr (A. Toptal Bilhan)
IE 491  Introduction to Research in IE and OR II
Continuation of IE490 Introduction to Research in IE and OR. The same research problem under the supervision of the same faculty advisor as in IE490 investigated to get deeper and extended results. Credit units: 3 ECTS
Credit Units: 6, Prerequisite: IE 490. Aut (A. Topal Bilhan) Spr (A. Topal Bilhan)

IE 496  Seminar in Production Systems
A series of seminars on issues of current interest to the practice of industrial engineering. Credit units: None
ECTS Credit Units: 1, Prerequisite: Senior standing in IE. Spr (K. Gökbayrak, E. Nadar, O. Oğuz)

GRADUATE COURSES

IE 500  Mathematics of Operations Research
Introduction to methods of proof, sets and functions, metric spaces, functions on metric spaces, differential and integral equations, fundamentals of linear algebra. Credit units: 3 ECTS Credit Units: 7.5. Aut (N. Şahin)

IE 505  Mathematical Programming
Fermat rule, lagrange multipliers, duality theory, Karush-Kuhn-Tucker conditions, convexity, conic optimization, linear optimization, networks, integer programming. Credit units: 3 ECTS Credit Units: 7.5. Aut (M. Ç. Finar)

IE 513  Linear Programming

IE 514  Network Flows

IE 518  Discrete Optimization

IE 519  Approximation Algorithms
The course covers combinatorial and mathematical programming techniques to derive approximation algorithms for np-hard optimization problems. Possible topics include greedy algorithms for vertex/set cover, approximation schemes via dynamic programming, rounding LP relaxations of integer programs, and semi definite relaxations. The course is complemented by the implementation of selected algorithms using a high-level language such as matlab. Credit units: 3 ECTS Credit Units: 7.5.

IE 521  Stochastic Processes

IE 522  Queuing Systems

IE 523  Probabilistic Analysis
IE 524 Simulation
The design and analysis of simulations. The use of simulation for estimation, comparison of policies, and optimization. Variance estimation techniques including the regenerative methods, time series methods, and batch means. Variance reduction. Statistical analysis of output of simulations, applications to modeling stochastic systems in computer science, engineering and operations research. Credit units: 3 ECTS Credit Units: 7.5.

IE 528 Dynamic Programming
Deterministic and discrete-time stochastic dynamic programming. Markov Decision Process under discounted and average payoff criteria, Adaptive Control Processes, bandit problems, stochastic games, and applications. Credit units: 3 ECTS Credit Units: 7.5.

IE 535 Stochastic and Risk-Sensitive Optimization
Models, solution methods, and theory for optimization problems under uncertainty and risk. Introduction to stochastic programming, optimization problems with probabilistic constraints, two-stage and multi-stage stochastic programming problems, Markov decision processes, utility functions, mean-risk optimization models, coherent measures of risk, and concept of stochastic dominance. Credit units: 3 ECTS Credit Units: 7.5, Prerequisite: IE 202 and MATH 250. Spr (Ö. Çavuş)

IE 540 Introduction to Financial Engineering
Financial markets (bonds, stocks, futures, forwards, options, interest rates and their term structures), models of security prices (Brownian motion, geometric Brownian motions, Ornstein-Uhlenbeck processes, Cox-Ross-Rubinstein binomial model, Merton-Black-Scholes model), pricing and hedging financial derivatives (Ito’s rule, stochastic integration, diffusion processes, probabilistic solutions of PDEs, no-arbitrage pricing in a complete market of futures, forwards, European and American type options, pricing in incomplete markets), Hedging with futures and options, bond hedging, numerical methods (pricing using trees, Monte-Carlo simulations, finite-difference methods), mean-variance analysis of portfolios, value at risk, optimal consumption and portfolio strategies (formulations and solutions of appropriate dynamic programming models and Hamilton-Jacobi-Bellman equations). Credit units: 3 ECTS Credit Units: 7.5.

IE 551 Applied Statistics
Exploratory data analysis, kernel density estimation, multivariate regression, nonparametric and semiparametric regression, scatterplot smoothing, linear mixed models, logistic regression, recursive partitioning, anova, ancova, hidden Markov models, dynamic linear models, graphical models, principal component analysis. Applications on real datasets using statistical software. Credit units: 3 ECTS Credit Units: 7.5.

IE 571 Analytical Models for Supply Chain Management
Theoretical and practical issues in the design and management of the supply chain. Logistic network configuration, risk pooling and multi-echelon inventory systems, value of information and bullwhip effect in supply chains, coordination of the supply chain using contracts, distribution strategies and strategic alliances for the supply chain and product design for supply chain efficiency. Credit units: 3 ECTS Credit Units: 7.5.

IE 577 Facility Location on Networks
Applications, modeling, theory and algorithms for optimal location of service facilities on distribution, transportation, communication networks. The course progresses from simple models to complex models. Well known median and center problems as well as other models will be covered. The course ends with a discussion of areas open to research. Credit units: 3 ECTS Credit Units: 7.5.

IE 583 Advanced Operations Research Models in Health Care
Operations research applications in health-care industry. Utilization of stochastic OR models, Markov decision processes in medical decision making; applications of operations research on health care operations management, clinical decision analysis, and health policy. Optimization applications in influenza vaccination, radiation therapy treatment planning, breast cancer screening, organ transplantation, infectious diseases; capacity planning and management in hospitals, ambulance service planning. Credit units: 3 ECTS Credit Units: 7.5.

IE 590 Research Topics in IE and OR
The purpose of this series of seminars is to illustrate and discuss research interests of faculty members and research groups within the Department of Industrial Engineering. A faculty member, or guest will present his/her research interests and discuss the current status and future research areas in that field. Credit units: None ECTS Credit Units: 1. Aut (M. S. Aktürk) Spr (M. S. Aktürk)
IE 599  Master’s Thesis
Credit units: None ECTS Credit Units: 56. Aut (Staff) Spr (Staff)

IE 616  Combinatorial Optimization

IE 690  Advanced Research Topics in IEOR
The purpose of this series of seminars is to illustrate and discuss research interests of faculty members and research groups within the Department of Industrial Engineering. A faculty member, or guest will present his/her research interests and discuss the current status and future research areas in that field. Credit units: None ECTS Credit Units: 1. Aut (M. S. Aktürk) Spr (M. S. Aktürk)

IE 691  Research Practice
An introduction to research techniques in industrial engineering and operations research for the direct Ph.D. program students; a written individual research report requirement under the supervision of a faculty member. Credit units: None ECTS Credit Units: 1.

IE 699  Ph.D. Dissertation
Credit units: None ECTS Credit Units: 56. Aut (Staff) Spr (Staff)
The mission of the Mechanical Engineering Department offers programs that lead to B.S., M.S., and Ph.D. degrees.

The mission of our department is to provide our students with a rich environment for learning through a broad-based education in the scientific and applied foundations of engineering and a solid foundation in problem solving, design and communication skills that they will need to pursue and meet the challenges of their individual career goals.

The ME program provides the students a strong foundation in engineering sciences through thermo-fluids, mechanics and materials and dynamics and control tracks, which emphasize students' analytical abilities. These are combined with courses on design and manufacturing that address from component to system-level design and emphasize the creativity of students.

The mission of the ME program is to prepare engineers for the global environment in which they can make responsible decisions while serving societal needs. The program emphasizes communication skills, knowledge of humanities, and ability to work in teams. The program also recognizes the significant role mechanical engineering can have in life sciences and thus the need for familiarity with molecular biology. A mandatory physics course that includes quantum mechanics further fosters interdisciplinary interaction beyond traditional boundaries.

The Department envisions future engineers as life-long learners. The ME program offers numerous electives to respond to the different needs and interests of our students along this vision in the leap to 21st century engineering.

### UNDERGRADUATE CURRICULUM

#### FIRST YEAR

<table>
<thead>
<tr>
<th>Autumn Semester</th>
<th>Credits / ECTS Credits</th>
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<tbody>
<tr>
<td>ENG 101 English and Composition I</td>
<td>3 / 6</td>
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<tr>
<td>GE 100 Orientation</td>
<td>1 / 1</td>
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<tr>
<td>MATH 101 Calculus I</td>
<td>4 / 7</td>
</tr>
<tr>
<td>ME 101 Fundamentals of Mechanical Engineering</td>
<td>2 / 2</td>
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<tr>
<td>PHYS 101 General Physics I</td>
<td>4 / 6</td>
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<tr>
<td>TURK 101 Turkish I</td>
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<thead>
<tr>
<th>Spring Semester</th>
<th>Credits / ECTS Credits</th>
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<tbody>
<tr>
<td>ENG 102 English and Composition II</td>
<td>3 / 6</td>
</tr>
<tr>
<td>MATH 102 Calculus II</td>
<td>4 / 7</td>
</tr>
<tr>
<td>ME 102 Introduction to Systems Engineering</td>
<td>3 / 6</td>
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<tr>
<td>PHYS 102 General Physics II</td>
<td>4 / 6</td>
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<tr>
<td>TURK 102 Turkish II</td>
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#### SECOND YEAR

<table>
<thead>
<tr>
<th>Autumn Semester</th>
<th>Credits / ECTS Credits</th>
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<tbody>
<tr>
<td>CS 113 Introduction to Computing for Engineers</td>
<td>4 / 7</td>
</tr>
<tr>
<td>GE 250 Collegiate Activities Program I</td>
<td>4 / 7</td>
</tr>
<tr>
<td>HUM 111 Cultures Civilizations and Ideas I</td>
<td>3 / 4</td>
</tr>
<tr>
<td>MATH 220 Linear Algebra</td>
<td>3 / 6</td>
</tr>
<tr>
<td>ME 211 Thermo-Fluids Engineering I</td>
<td>4 / 7</td>
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<tr>
<td>ME 231 Mechanics and Materials I</td>
<td>4 / 7</td>
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<table>
<thead>
<tr>
<th>Spring Semester</th>
<th>Credits / ECTS Credits</th>
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<tbody>
<tr>
<td>CS 114 Introduction to Programming for Engineers</td>
<td>4 / 7</td>
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<tr>
<td>GE 251 Collegiate Activities Program II</td>
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<td>Course Code</td>
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<tr>
<td>HUM 112</td>
<td>Cultures, Civilizations and Ideas II</td>
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<tr>
<td>MATH 240</td>
<td>Differential Equations</td>
</tr>
<tr>
<td>ME 212</td>
<td>Thermo-Fluids Engineering II</td>
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<tr>
<td>ME 232</td>
<td>Mechanics and Materials II</td>
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**THIRD YEAR**

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<th>Course Code</th>
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<tbody>
<tr>
<td>CHEM 201</td>
<td>Materials Science and Technology</td>
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<tr>
<td>ENG 401</td>
<td>Technical Report Writing and Presentation</td>
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<tr>
<td>MATH 230</td>
<td>Probability and Statistics for Engineers</td>
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<tr>
<td>MBG 110</td>
<td>Introduction to Modern Biology</td>
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<tr>
<td>ME 299</td>
<td>Summer Practice I</td>
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</tr>
<tr>
<td>ME 341</td>
<td>Dynamics and Control I</td>
<td>3 / 6</td>
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<tr>
<td>ME Elective</td>
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**Spring Semester**

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<th>Course Code</th>
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<tbody>
<tr>
<td>HIST 200</td>
<td>History of Turkey</td>
<td>4 / -</td>
</tr>
<tr>
<td>ME 342</td>
<td>Dynamics and Control II</td>
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</tr>
<tr>
<td>ME 371</td>
<td>Measurement and Instrumentation</td>
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</tr>
<tr>
<td>ME 381</td>
<td>Design and Manufacturing</td>
<td>3 / 6</td>
</tr>
<tr>
<td>ME 384</td>
<td>Mechatronic Systems</td>
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**FOURTH YEAR**

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<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>GE 301</td>
<td>Science Technology and Society</td>
<td>2 / 1</td>
</tr>
<tr>
<td>ME 399</td>
<td>Summer Practice II</td>
<td>4 / -</td>
</tr>
<tr>
<td>ME 481</td>
<td>Mechanical Engineering Design I</td>
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<tr>
<td>ENG Elective</td>
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<tr>
<td>Humanities or Social Science Elective</td>
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<td>3 / 6</td>
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<tr>
<td>ME Elective (2)</td>
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**Spring Semester**

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<th>Course Title</th>
<th>Credits / ECTS Credits</th>
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<tbody>
<tr>
<td>ME 482</td>
<td>Mechanical Engineering Design II</td>
<td>3 / 6</td>
</tr>
<tr>
<td>Elective</td>
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<td>3 / 6</td>
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<tr>
<td>ENG Elective</td>
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<td>3 / 6</td>
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<tr>
<td>Humanities or Social Science Elective</td>
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<tr>
<td>ME Elective</td>
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<td>3 / 6</td>
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<tr>
<td>Science Elective</td>
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**MECHANICAL ENGINEERING ELECTIVES**

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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>ME 343</td>
<td>Mechanical Vibrations</td>
<td>3 / 6</td>
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<tr>
<td>ME 361</td>
<td>Numerical Methods for Engineers</td>
<td>3 / 6</td>
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<tr>
<td>ME 362</td>
<td>Finite Elements</td>
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<td>ME 363</td>
<td>Computer-Aided Design</td>
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<td>ME 401</td>
<td>Acoustics and Noise Control</td>
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<td>ME 402</td>
<td>Waves and Oscillations</td>
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<td>ME 432</td>
<td>Applied Thermodynamics</td>
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<tr>
<td>ME 433</td>
<td>Gas Dynamics</td>
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<td>ME 435</td>
<td>Environmental Thermal Engineering</td>
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<td>ME 436</td>
<td>Energy Conversion Systems</td>
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<td>ME 437</td>
<td>Heat Engines</td>
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<td>ME 440</td>
<td>Automotive Engineering</td>
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<tr>
<td>ME 442</td>
<td>Machinery Dynamics</td>
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<tr>
<td>ME 446</td>
<td>Applications of Solid Mechanics</td>
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<tr>
<td>ME 451</td>
<td>Applications of Fluid Mechanics</td>
<td>3 / 6</td>
</tr>
<tr>
<td>ME 490</td>
<td>Undergraduate Research in ME</td>
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</tr>
<tr>
<td>ME 500</td>
<td>Integrated Product Development</td>
<td>3 / 6</td>
</tr>
<tr>
<td>ME 501</td>
<td>Mathematical Techniques in Mechanical Engineering</td>
<td>3 / 6</td>
</tr>
<tr>
<td>ME 503</td>
<td>Numerical Methods in Mechanical Engineering</td>
<td>3 / 6</td>
</tr>
<tr>
<td>ME 511</td>
<td>Fluid Mechanics</td>
<td>3 / 6</td>
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</table>
ME 516  Tribology - Friction, Lubrication and Wear ........................................... 3 / 6
ME 521  Advanced Thermodynamics ................................................................. 3 / 6
ME 523  Molecular Simulation of Materials ....................................................... 3 / 6
ME 550  Continuum Mechanics ........................................................................ 3 / 6
ME 551  Mechanics and Materials ...................................................................... 3 / 6
ME 552  The Finite Element Method .................................................................. 3 / 6
ME 555  Cellular Biomechanics ......................................................................... 3 / 6
ME 556  Advanced Manufacturing ...................................................................... 3 / 6
ME 557  Metal Cutting Principles ......................................................................... 3 / 6
ME 561  Vibration of Linear and Dynamic Systems ........................................... 3 / 6
ME 565  Dynamics ............................................................................................... 3 / 6
ME 566  Acoustics ............................................................................................... 3 / 6
ME 575  Micro/Nano Robotics ............................................................................ 3 / 6
ME 578  Vehicle Control Systems ....................................................................... 3 / 6
ME 579  Adaptive Control Systems ...................................................................... 3 / 6
ME 581  Computer Aided Design ......................................................................... 3 / 6
ME 582  Fundamentals of Design for Reliability ................................................. 3 / 6
ME 584  Mechatronics Design ........................................................................... 3 / 6
ME 612  Turbulent Flow ..................................................................................... 3 / 6
ME 615  Microfluidics ......................................................................................... 3 / 6
ME 630  Advanced Heat Transfer ........................................................................ 3 / 6
ME 631  Conductive Heat Transfer ...................................................................... 3 / 6
ME 632  Convective Heat Transfer ...................................................................... 3 / 6
ME 634  Small Scale Heat Transfer ..................................................................... 3 / 6
ME 635  Heat Transfer in Biology and Medicine ................................................ 3 / 6
ME 652  Solid Mechanics .................................................................................... 3 / 6
ME 657  Nano/Micro Manufacturing .................................................................. 3 / 6
ME 671  Linear Systems ...................................................................................... 3 / 6

**GRADUATE PROGRAMS**

The Department of Mechanical Engineering offers M.S. and Ph.D. degree programs with the possibility of specialization in different areas of research in mechanical engineering.

**Master of Science in Mechanical Engineering**

**Admission:** All applicants are required to have a B.S. degree in mechanical engineering, or in a related field of science or engineering. Students with a B.S. degree in areas other than mechanical engineering may be requested to take several undergraduate courses in the field to acquire the necessary background. Evaluation of applicants is based on their ALES (Akademik Personel ve Lisansüstü Eğitimi Giriş Sınavı - Academic Personnel and Postgraduate Education Entrance Examination) scores, past academic records, reference letters and an interview. Applicants who are not Turkish citizens and Turkish citizen applicants who are residents of another country may take GRE instead of ALES. All non-native speakers of English are required to submit a proof of satisfactory knowledge of English.

**Degree Requirements:** In addition to at least 24 credit units of course work, the M.S. degree candidate must prepare and successfully defend a thesis. Expected duration to complete the M.S. program is four semesters; the maximum duration is six semesters.

**Doctor of Philosophy in Mechanical Engineering**

**Admission:** All applicants are required to have a B.S. degree in mechanical engineering, or in a related field of science or engineering. Evaluation of applicants is based on their ALES (Akademik Personel ve Lisansüstü Eğitimi Giriş Sınavı - Academic Personnel and Postgraduate Education Entrance Examination) scores, past academic records, reference letters and an interview. Applicants who are not Turkish citizens and Turkish citizen applicants who are residents of another country may take GRE instead of ALES. All non-native speakers of English are required to submit a proof of satisfactory knowledge of English.
Degree Requirements: 24 credit units of course work beyond the M.S. level or 48 credits of course work beyond the B.S. level is required. PhD candidates must pass a qualifying exam typically on their fourth semester, and then must prepare a thesis work proposal. Preparing and defending a dissertation based on original research is the essence of the program. A dissertation based on original research is the essence of the program. The expected duration to complete the Ph.D. program is eight semesters for students who enter the program after a M.S. degree, and ten semesters for those who enter after a B.S. degree. The maximum durations are 12 and 14 semesters, respectively.

COURSE DESCRIPTIONS

UNDERGRADUATE COURSES

ME 101  Fundamentals of Mechanical Engineering
Introduction to Mechanical Engineering. Analysis of real engineering problems using mechanical engineering principles.  
Credit units: 2 ECTS Credit Units: 2.  
Aut (A. Akay, M. Z. Baykara)

ME 102  Introduction to Systems Engineering
Treatment of engineering problems from a systems perspective and a unified application of mechanical engineering principles, introduction to and use of CAD systems and group projects.  
Credit units: 3 ECTS Credit Units: 6.  
Spr (M. Tohumcu)

ME 211  Thermo-Fluids Engineering I
Unified development of the principles of thermodynamics, fluid mechanics and heat transfer and their applications with examples. Emphasis is on the first and second laws of thermodynamics. Heat, work, entropy and irreversibility are covered.  
Credit units: 4 ECTS Credit Units: 7.  
Prerequisite: MATH 101 and ME 101 and PHYS 101.  
Aut (B. Çetin, E. Y. Erdem)

ME 212  Thermo-Fluids Engineering II
Emphasizes hydrostatics and fluid mechanics, and applied to control volume, mass, momentum, and energy conservation, Euler and Bernoulli equations are developed, and topics such as internal and external flows, viscous flow, laminar flow systems, turbulence are covered. Thermodynamics, fluid mechanics and heat transfer principles are applied in a unified manner to analysis and design of systems. Heat transfer in laminar and turbulent flows and heat exchangers are also covered.  
Credit units: 4 ECTS Credit Units: 7.  
Prerequisite: MATH 102 and ME 211.  
Spr (B. Çetin)

ME 231  Mechanics and Materials I
Statically indeterminate problems; two and three dimensional problems. Analysis of bending, twisting, shear and axial combined stresses. Introduction to energy methods.  
Credit units: 4 ECTS Credit Units: 7.  
Prerequisite: MATH 101 and ME 101 and PHYS 101.  
Aut (M. Z. Baykara, I. Temizer)

ME 232  Mechanics and Materials II
Use of engineering materials in design, analysis of combined loads and stresses and failure theories. Fatigue, impact and plastic deformation are covered.  
Credit units: 4 ECTS Credit Units: 6.  
Prerequisite: MATH 102 and ME 231.  
Spr (M. Z. Baykara, I. Temizer)

ME 299  Summer Practice I
A minimum of four weeks summer practice in a manufacturing organization; observation of organization in its original settings; written report.  
Credit units: None ECTS Credit Units: 1.  
Prerequisite: ME 211 and ME 231.  
Aut (Staff) Spr (Staff)

ME 341  Dynamics and Control I
Modeling and control of dynamical systems. Particles, groups of particles and motion of solids, effects of forces, kinematics, Lagrange equations. Solutions in time and frequency domains.  
Credit units: 4 ECTS Credit Units: 7.  
Prerequisite: (MATH 240 and ME 231 and PHYS 102) or (MATH 242 and ME 231 and PHYS 102).  
Aut (M. Çakmakci, M. S. Hanay)

ME 342  Dynamics and Control II
Parametric modeling of systems and their analysis and control. Linear system theory, Laplace Transforms, transfer functions, introduction to feedback controls, root-locus analysis.  
Credit units: 4 ECTS Credit Units: 7.  
Prerequisite: (ME 341 and MATH 220) or (ME 341 and MATH 241).  
Spr (M. Çakmakci)

ME 343  Mechanical Vibrations
Credit units: 3 ECTS Credit Units: 6.  
Prerequisite: (ME 341 and MATH 240) or (ME 341 and MATH 242).  
Spr (M. Z. Baykara)
ME 361 Numerical Methods for Engineers
Application of numerical methods in engineering problems. Applications are selected from different areas. Credit units: 3 ECTS Credit Units: 6, Prerequisite: CS 114 and (MATH 220 or MATH 241) and (MATH 240 or MATH 242). Aut (Ş. F. Annç) Spr (Ş. F. Annç)

ME 371 Measurement and Instrumentation
Principles of experiment design, measurement, recording and analysis of force, strain, temperature, flow, and acceleration. Principles of impedance match, measurement circuits, MEMS sensors, Fourier transfer, and applications of probability and statistics. Use of typical laboratory equipment such as oscilloscopes, frequency analyzers, operational amplifiers, and thermo couples. Credit units: 3 ECTS Credit Units: 6, Prerequisite: MATH 230. Spr (Ş. Baytaroğlu, E. Y. Erdem)

ME 381 Design and Manufacturing
Detailed design, analysis, and manufacturing concepts, CAD and CAE are used to turn ideas into engineering drawings. Applications to machine elements and material selection. Effects of materials and uncertainties on manufacturing quality, manufacturing speed, cost and production flexibility. Credit units: 3 ECTS Credit Units: 6, Prerequisite: ME 102. Spr (Ö. A. Anlagan)

ME 384 Mechatronic Systems
Integration of electrical and mechanical systems, modeling and simulation of mechanical systems, electric circuits and components, semiconductor basics and system response fundamentals. Control of mechanical systems with microcomputers. Emphasis on embedded sensors and actuators. Design under uncertainty. Includes a student project. Credit units: 3 ECTS Credit Units: 6, Prerequisite: (ME 341 and MATH 220) or (ME 341 and MATH 241). Spr (M. S. Hanay)

ME 399 Summer Practice II
A minimum of four weeks summer practice in an engineering company; formulation of an ME problem and proposal for solutions to it; written report. Credit units: None ECTS Credit Units: 1, Prerequisite: ME 342 and ME 371 and ME 381. Aut (Staff) Spr (Staff)

ME 432 Applied Thermodynamics
Design and analysis of devices and thermal processes using principles of thermodynamics. Examples include nuclear power stations, jet engines, energy conversion, internal combustion engines, desalination and others. Credit units: 3 ECTS Credit Units: 6, Prerequisite: ME 212.

ME 440 Automotive Engineering

ME 442 Machinery Dynamics
Design and analysis of mechanisms. Gears, gear trains, cams, involute and circular gear properties. Force transmission and analysis and mass balance. Credit units: 3 ECTS Credit Units: 6, Prerequisite: ME 232 and ME 341. Aut (B. Dönmez)

ME 446 Applications of Solid Mechanics
Introduction to elasticity theory; tension-compression, continuity equations. Advanced strength of materials: torsion of axisymmetric cross sections, curved beams, thick-walled cylinders. Mechanics of composite materials. Introduction to layered materials and applications. Credit units: 3 ECTS Credit Units: 6, Prerequisite: ME 232.

ME 481 Mechanical Engineering Design I
Development of a mechanical engineering project, design procedures, design selection, engineering statement of customer preferences, ethical and professional responsibilities of engineers. Projects lead to products. Credit units: 3 ECTS Credit Units: 6, Prerequisite: (CHEM 201 and ME 212 and ME 232 and ME 342 and ME 371 and ME 381 and ME 384) and (ENG 400 or ENG 401) . Aut (A. Akay, M. S. Hanay)

ME 482 Mechanical Engineering Design II
The projects that are started in ME 481 are realized by teams of students. The final products are presented to a jury. Credit units: 3 ECTS Credit Units: 6, Prerequisite: ME 481. Spr (A. Akay)

ME 490 Undergraduate Research in ME
Project on a specific topic in any field of mechanical engineering to be carried out by the student under the supervision of a faculty member. Credit units: 3 ECTS Credit Units: 6. Aut (Staff) Spr (Staff)
GRADUATE COURSES

ME 500 Integrated Product Development
The process of new product development from an interdisciplinary standpoint. A one-semester project course involving the collaborative team effort from engineering design to business plan. Credit units: 3 ECTS Credit Units: 6. Aut (M. Tohturm)u

ME 501 Mathematical Techniques in Mechanical Engineering

ME 511 Fluid Mechanics
Development and application of control volume forms of mass, momentum and energy conservation laws, differential forms of these laws in Eulerian and Lagrangian coordinates, and Navier-Stokes equations. Applications to problems in incompressible and compressible laminar flows, boundary layers, hydrodynamic lubrication, transient and periodic flows, thermal boundary layers, convective heat transfer, and aerodynamic heating. Credit units: 3 ECTS Credit Units: 6.

ME 550 Continuum Mechanics
Introduction to the fundamental concepts and tools for mechanics. Overview of tensor calculus, the kinematics of deformation, concepts of stress, strain, linearization, objectivity and the balance laws for mass, momentum and energy. Materials modeling aspects such as constitutive laws and material symmetry applications to solid and fluid mechanics. Credit units: 3 ECTS Credit Units: 6. Spr (İ. Temizer)

ME 552 The Finite Element Method

ME 557 Metal Cutting Principles
The basic principles of metal cutting. The mechanics of metal cutting, heat generation during metal cutting, modern cutting materials, tool life and tool wear, cutting fluids, surface roughness generated by cutting actions, chip control, economics of cutting, chatter vibration, abrasive machining and non-conventional machining processes. Credit units: 3 ECTS Credit Units: 6. Aut (Ö. A. Anlağan)

ME 561 Vibration of Linear and Dynamic Systems
Modeling and analysis of discrete and continuous linear systems. Equations of motion for multiple-degree-of-freedom systems through Lagrange's method; linearization about equilibrium; symmetry and definiteness properties; free vibration; matrix eigenvalue problems; orthogonality; Rayleigh quotient; generalized coordinates; transient and forced response through modal analysis. Continuous systems include classical rod, shaft, string, beam, membrane and plate models; Hamilton's principle; equations of motion and boundary conditions through variational methods; essentials of functional analysis; exact solution of eigenvalue problems; response through modal analysis. Credit units: 3 ECTS Credit Units: 6.

ME 565 Dynamics
Kinematics of particles and rigid bodies; dynamics of a particle, systems of particles and rigid bodies; central force fields, orbits and trajectories variable mass systems; Lagrange's equations of motion; Hamilton's Principle; variational methods; and applications to dynamics problems and the fundamentals of gyroscopes. Credit units: 3 ECTS Credit Units: 6. Aut (M. Çakmakçı)

ME 566 Acoustics

ME 578 Vehicle Control Systems
Design and analysis of vehicle control systems such as cruise control, traction control, active suspensions and advanced vehicle control systems for Intelligent Vehicle-Highway Systems (IVHS). Human factor considerations such as driver interfaces. Fuel Cell and Hybrid Electric Vehicle Control Systems. Credit units: 3 ECTS Credit Units: 6.
ME 579  Adaptive Control Systems  
Control systems with undetermined or time-varying parameters, theory and application of self-tuning and model reference adaptive control for continuous and discrete-time deterministic systems, methods for estimation and control, stability of nonlinear systems, adaptation laws, and design and application of adaptive control systems. 
Credit units: 3 ECTS Credit Units: 6. Spr (Staff)

ME 582  Fundamentals of Design for Reliability  
Credit units: 3 ECTS Credit Units: 6. Aut (M. Tohumcu)

ME 590  Mechanical Engineering Seminar  
This is a seminar course for graduate students. Faculty and students meet once a week for presentations and discussions. Topics of presentations are chosen by the mutual consent of the supervisors and the students. 
Credit units: None ECTS Credit Units: 1. Aut (Staff) Spr (Staff)

ME 599  Master's Thesis  
Credit units: None ECTS Credit Units: 1. Aut (Staff) Spr (Staff)

ME 615  Microfluidics  
The fluid dynamical phenomena underlying key components of "lab on a chip" devices. Practical aspects of microfluidic device operation through hands-on laboratory experience, computer simulations of microscale flows, and reviews of recent literature in the field. Ways of optimizing device performance based on knowledge of the fundamental fluid mechanics. Selected topics will be covered in more detail through a semester project. Pressure-driven and electrokinetically-driven flows in microchannels, surface effects, micro-fabrication methods, micro/nanoparticles for biotechnology, biochemical reactions and assays, mixing and separation, two-phase flows, and integration and design of microfluidic chips. 
Credit units: 3 ECTS Credit Units: 6. Aut (E. Y. Erdem)

ME 657  Nano/Micro Manufacturing  
Lithography, laser processes, mechanical micro-manufacturing, measurement techniques, ultrasonic micromachining, micro-electrodischarge machining, micro-electrochemical machining, e-beam and ion-beam machining, and micro-stereolithography techniques are surveyed. The physical principles; material capability, geometric capability, and other advantages/disadvantages of these techniques. Students are required to complete a final project. 
Credit units: 3 ECTS Credit Units: 6. Spr (E. Y. Erdem)

ME 690  Mechanical Engineering Seminar  
This is a seminar course for graduate students. Faculty and students meet once a week for presentations and discussion. Topics of presentations are chosen by the mutual consent of the supervisors of the students. 
Credit units: None ECTS Credit Units: 1. Aut (Staff) Spr (Staff)

ME 699  Ph.D. Dissertation  
Credit units: None ECTS Credit Units: 1. Aut (Staff) Spr (Staff)
The Faculty of Humanities and Letters comprises six departments and a program:

- American Culture and Literature
- Archaeology
- Conference Interpreting
- English Language and Literature
- Philosophy
- Translation and Interpretation
- Turkish Literature

The departments of American Culture and Literature, Archaeology, English Language and Literature, Philosophy, and Translation and Interpretation all have Bachelor of Arts (B.A.) programs. In addition, the Department of Turkish Literature offers graduate programs leading to Master of Arts (M.A.) and Doctor of Philosophy (Ph.D.) degrees, while the Department of Archaeology has an M.A. program.

The Faculty also houses a number of non-degree-granting units which offer university-wide service courses in Foreign Languages (French, German, Italian, Japanese, Russian and Spanish) and Turkish language. The Cultures, Civilizations and Ideas unit offers a year-long intensive course to sophomore students.

**ACADEMIC STAFF**

**Varol Akman**, Professor
Ph.D., Electrical, Computer, and Systems Engineering, Rensselaer Polytechnic Institute, 1985. Artificial intelligence, logic, philosophy of language, philosophy of mind, pragmatics, the Internet and society.

**Istvan Albert Aranyosi**, Assistant Professor (on leave)

**Sema Aydin**, Instructor
M.A., German Language and Literature, Hacettepe University, 1989.

**Catherine Louise Barry**, Instructor
Ph.D., French Literature, Emory University, 2002. Aesthetics, cultural history and literature.

**Katarzyna Bartoszynska**, Assistant Professor
Ph.D., Comparative Literature, University of Chicago, 2011. Intersections between literature and philosophy, travel writing, cultural theory and translation.

**Aylin Bayrakçeken Akin**, Assistant Professor
Ph.D., English Language and Literature, Hacettepe University, 1996.

**Julian Bennett**, Assistant Professor
Ph.D., Archaeology, University of Newcastle upon Tyne, 1991. Roman provinces and frontier studies, cultural heritage, archaeological drafting and surveying.

**Sandrine Berges**, Assistant Professor

**Yehezkel S. Berkovski**, Assistant Professor
Ph.D., Philosophy, Oxford University, 2005. Logical positivism, philosophy of logic, Kant, possible worlds, philosophy of science.

**Ahmet Beyati**, Instructor
Ph.D., Management, University of Baghdad, 1994. Arabic.
Arzu Bezgin, Instructor  

Barbara Blackwell Gülen, Instructor  
M.S., English Language Teaching, Middle East Technical University, 1987.

Dennis Raymond Bryson, Assistant Professor (on leave)  

Ayşe Çandogan, Instructor  

Cenk Cangır, Instructor  
B.A., French Language and Literature, Hacettepe University, 1989.

William Norman Coker, Assistant Professor  
Ph.D., Comparative Literature, Yale University, 2010. German literature and intellectual history.

Başak Berna Cordan, Instructor  

Costantino Costantini, Instructor  
Ph.D., Comparative Literature, Emory University, 2001. Classics, French and Italian literature, theory.

Gülay Câyan, Instructor  
B.A., German Language Teaching, Hacettepe University, 1992.

İpek Çelik, Assistant Professor  
Ph.D., New York University, Comparative Literature, 2009. Modern Greek, German, French literature, twentieth century.

Ayşe Celikkol, Assistant Professor  
Ph.D., Rice University, 2006. 19th-century British and American literature, liberalism, history of globalization.

Şerife Dalbudak, Instructor  

Alican Demir, Instructor  

Mehmet Hilmi Demir, Assistant Professor  

Emine Lale Demirtürk, Associate Professor  

Marianella Gutierrez Erdem, Instructor  
B.A., Spanish Language Teaching, Corazon de Maria University, 1970.

Mahmut Akin Erkoç, Instructor  
B.A., French Language and Literature, Hacettepe University, 1981.

Burçak Pakoğu, Instructor  

Ersen Findik, Assistant Professor  
Ph.D., Library Information Sciences, Hacettepe University, 1985. Etiquette and modern business manners, business writing techniques in Turkish.

Charles Varner Gates, Senior Lecturer  
Ph.D., Classical Archaeology, University of Pennsylvania, 1979. Aegean Bronze Age, Greek art and archaeology, Byzantine art and archaeology.
Marie-Henriette Gates, Associate Professor
Ph.D., Ancient Near Eastern Languages and Literatures, Yale University, 1976. Archaeology of Mesopotamia, archaeology of Egypt, archaeology of Syria and Palestine, archaeological method and theory.

Ali Turan Görgü, Instructor
M.A., Teaching of Turkish, Gazi University, 1997.

Sevil Güner, Instructor

Talat S. Halman, Professor

Mihaela P. Harper, Assistant Professor

Patrick Hart, Assistant Professor
Ph.D., English Studies Department, University of Strathclyde, 2011. Renaissance Literature, Renaissance poetry in England and Scotland, particularly in the Petrarchan mode; modernist and contemporary experimental poetry.

Daren Ivan Hodson, Instructor
Ph.D., Comparative Literature, University of Utah, 1995. Composition and rhetoric, eighteenth century literature, philosophy and culture, contemporary culture.

Craig Ireland, Assistant Professor
Ph.D., Theory and Epistemology of Literature, Université de Montréal, 2000. Social and literary theory, public sphere theory, Western Marxism, Cultural Studies, 18th to 20th-century Western intellectual and cultural history.

Tanju İnal, Professor

Daniel Peter Johnson, Assistant Professor
Ph.D., History, State University of New York at Binghamton, 2011. 17th and 18th century American social and Cultural history, early modern imperialism and popular politics, Historiography and social theory.

Mehmet Kalpaklı, Assistant Professor
Ph.D., Turkish Literature, University of Washington/Istanbul University, 1992. Ottoman literature and cultural history, Near Eastern languages and literature, modern Turkish literature, theory of literature, use of computers for humanities.

Sükiyrie Engin Karacaören, Instructor
Ph.D., Spanish Language and Literature, Ankara University, 2002.

Aysin Karanfil, Instructor

Valerie June Kennedy, Assistant Professor

Paul Elliot Kimball, Instructor
Ph.D., Classics (concentration in ancient history) State University of New York at Buffalo, 2004. Hellenistic and late antique history, Byzantine social and cultural history, Greek religion, myth and ritual.

Edward Parliament Kohn, Assistant Professor
Gül Kurtuluş, Instructor
Ph.D., English Literature, Bilkent University, 1997. Modern drama, 16th and 17th century English Literature, Modern British and American short fiction.

Daniel Harrison Leonard, Visiting Assistant Professor
Ph.D., Colombia University, 2007. Enlightenment, French Literature and philosophy, aesthetics, history of science.

Michael Meeuvis, Assistant Professor

Kourken Haig Michaelian, Assistant Professor
Ph.D., Philosophy, University of Massachusetts Amherst, 2009. Epistemology, philosophy of mind.

Jacques Morin, Instructor
Ph.D., Classics, McGill University, 1991. Greek and Roman art and archaeology, Aegean prehistory.

Nurdane Mumcu Öz, Instructor
M.A., Turkish Language and Literature, Ankara University, 2002.

Mukaddes Mutluer, Instructor
B.A., German Language and Literature, Hacettepe University, 1976.

Mustafa Nakeeb, Visiting Assistant Professor

Alexandra Noyanalpan, Instructor

Saeko Ohashi, Instructor

Ayşe Şirin Okyayuz, Assistant Professor
Ph.D., Department of Linguistics, Hacettepe University, 2001.

Michael Kurt Özment, Visiting Assistant Professor
Ph.D., Comparative Literature, University of California, 2007. Aesthetics, literary theory, poetry.

Sare Öz, Instructor
B.A., Turkish Literature, Gazi University, 1960.

Özlem Öz杜兰, Instructor

Ahmet Öz, Instructor
B.A., Turkish Language and Literature, Anadolu University, 1992.

Fatma İknur Özgen, Associate Professor

Güçlü Özkök, Instructor
M.A., French Language and Literature, Hacettepe University, 1995.

Gürcan Özköklü, Instructor

Andrew Jonathan Ploeg, Visiting Assistant Professor

Donald Bruce Randall, Associate Professor
Jennifer Andrea Reimer, Assistant Professor
Ph.D., Ethnic Studies, University of California, Berkeley. Race, ethnicity, and gender in American literary and cultural studies, immigration and Diaspora studies, Latino/a Studies, and creative writing.

Özlem Sacak, Instructor

Kory Spencer Sorrell, Assistant Professor

Şengül Soyretir Şentürk, Instructor
Ph.D., German Language and Literature, Hacettepe University, 1999.

Engin Soyupak, Instructor
B.A., French Language Teaching, Gazi University, 1976.

Cory Douglas Stockwell, Assistant Professor
Ph.D., University of Minnesota, Comparative Literature, 2010. 18th and 20th century comparative literature.

Abdulhak Hamit Sunel, Instructor
Ph.D., Education, Hacettepe University, 1968.

Yasemin Tanbi, Instructor
M.A., Translation and Interpretation, Atılım University, 2011.

Gülnara Tanrikulu, Instructor
Ph.D., Russian Language and Literature, Şevçenko Russian University, 1988.

Sema Taşkın, Instructor
Ph.D., English Literature, Hacettepe University, 1999. 20th century poetry, Romantic poetry, Victorian literature.

Burcu Taşkiran, Instructor
M.A., Graduate School of Education, Bilkent University, 2002.

Havva Nuran Tezcan, Associate Professor
Ph.D., Ottoman Literature, Otto-Friedrich University-Bamberg, 1996. Ottoman literature, poetry of the Republican era, Turkish lexicon, Turkish as a native and foreign language.

Semih Tezcan, Visiting Professor
Ph.D., Turcology, University of Göttingen-Germany, 1970. Pre-Islamic and Early-Islamic Turkish Languages and Literature, Turkish Languages of Persia, Old Anatolian Turkic, Turkish Lexicology.

Buson Zelda Turan, Instructor
B.A., French Language and Literature, Hacettepe University, 1982.

İbrahim Turan, Instructor

Nurhan Turgut, Instructor
M.A., German Language and Literature, Hacettepe University, 1996.

Simon Drummond Vigley, Associate Professor

Lars Roland Vinx, Assistant Professor
Ph.D., Philosophy, University of Toronto, 2006. Political philosophy and history of political thought, philosophy of law, medieval and early modern philosophy.

John Woods III, Assistant Professor
Ph.D., Philosophy, Princeton University, 2013. Logic, Philosophy of Logic, Philosophy of Language, Metaethics.

William Giles Wringe, Assistant Professor
Hilmi Yavuz, Adjunct Senior Lecturer  
Vedat Yazıcı, Instructor  
Thomas Zimmermann, Assistant Professor  
Ph.D., Regensburg University, 2006. European and Anatolian prehistory and protohistory, Archaeometallurgy.  

PART-TIME ACADEMIC STAFF

Asuman C. Abuagla, Ph.D., in Ancient Languages and Cultures, Akdeniz University, 2012.  
Ekrem Aksoy, Ph.D., Hacettepe University, French Language and Literature, 1989.  
Luidmyla Alyekeyvenskova, M.S., Mechanical Engineering, Kiev Polytechnic Institute, Ukrainie, 1982.  
Neşe Çetiner, B.A., Turkish Language and Literature, Istanbul University, 1974.  
Leyla Burcu Dündar, Ph.D., Bilkent University, Turkish Literature, 2007.  
G. Gonca Gökalp Alpaslan, Ph.D., Turkish Language and Literature, Hacettepe University, 1999.  
Sevim Gözüezon, M.A., Turkish Literature, Bilkent University, 2003.  
Ahu Gümüşkan, B.A., German Language and Literature, Hacettepe University, 2005.  
Oktay İkinci, B.A., Turkish Language and Literature, Gazi University, 1988.  
Qitao Chen İlhan, B.A., Management, Beijing University, 1994.  
Ahmet Kaya, B.A., Turkish Language and Literature, Ankara University, 1985.  
Cecile Martine Nadine Malet-Peterson, Ph.D., English Literature, University of London (U.K.), 1999.  
Leman Miftuhoğlu, B.A., Turkish Language and Literature, Istanbul University, 1977.  
Ocal Oğuz, Ph.D., Gazi University, 1991. Turkish folk literature.  
Meltem Ozataç, M.A., Comparative Literature, Sorbonne University France, 2013.  
Fatma Doğuş Özdemir, M.A., History, Bilkent University, 2008.  
Ayhan Şendöl, B.A., Turkish Language and Literature, Ankara University, 1966.  
Nalan Tuna, B.A., Turkish Language and Literature, Ankara University, 1984.  
Ashu Uçar, Ph.D., Turkish Literature, Bilkent University, 2012.  
Seda Uyanık, Ph.D., Turkish Literature, Bilkent University, 2011.  
GENERAL COURSES

PROGRAM IN CULTURES, CIVILIZATION AND IDEAS


COURSE DESCRIPTIONS

HUM 111 Cultures Civilizations and Ideas I
This half of the year-long course “Cultures, Civilizations, and Ideas” introduces students to the study of culture and civilization through close reading of primary texts in the ancient traditions of the Near East and the Mediterranean. It also introduces students to more modern critical readings and discussion of the value and weight of this tradition. The course aims to provide students with an understanding of the ancient roots of literary craft and philosophical thought, and to enhance the student’s ability in interpretative and critical reasoning. Successful completion of the course requires careful and timely reading of assigned texts, essay writing, and active participation in class discussion. Grading is based on a course project, a mid-term examination or term-paper, comprehensive final examination, reading quizzes and class participation. Required texts include: Epic of Gilgamesh; Freud: Civilization and its Discontents; Homer: Iliad; Sophocles: Theban Plays; Plato: Republic; and a course reader of other shorter works and critical essays. Credit units: 3 ECTS Credit Units: 4, Prerequisite: ENG 101. Aut (C. L. Barry, K. Bartoszynska, W. N. Coker, C. Costantini, İ. Çelik, D. I. Hodson, P. E. Kimball, M. Meeuwis, M. Nakeeb, A. J. Ploeg) Spr (K. Bartoszynska, P. E. Kimball, D. H. Leonard, M. Nakeeb, K. S. Sorrell, C. D. Stockwell)

HUM 112 Cultures Civilizations and Ideas II
The second half of the year-long course “Cultures, Civilizations and Ideas”, continues the study of culture through examination of texts through the periods of the Late Middle Ages, the Renaissance, Enlightenment, and up to modern times. The course focuses on several themes, most importantly, the concepts of Modernity and Knowledge, Individualism, Cross-Cultural Contact, Social Order and Disorder. As in HUM 111, close reading and discussion of primary texts is the vehicle for the course. Grading is based on a course project, a mid-term examination or term-paper, comprehensive final examination, reading quizzes and class participation. Required authors include, among others: Machiavelli, Shakespeare, Descartes, Rousseau, Hegel, Marx, Kafka. Credit units: 3 ECTS Credit Units: 4, Prerequisite: HUM 111 or HUM 121. Aut (D. H. Leonard, M. K. Ozment, K. S. Sorrell, C. D. Stockwell) Spr (C. L. Barry, W. N. Coker, C. Costantini, İ. Çelik, M. P. Harper, D. I. Hodson, C. M. N. Malet-Peterson, M. Meeuwis, K. S. Sorrell, C. D. Stockwell)

HUM 331 Humanities and Social Science Honors Seminar
This seminar is restricted to students who have a cumulative grade point average of 3.30 or higher. The seminar is designed to provide students with a sense of basic concepts and theoretical approaches which are common to advanced research in the humanities and social sciences. Though the specific content of the seminar will change from one year to the next, each seminar will present important readings and texts from several disciplines (philosophy, psychology, sociology, literary theory, etc.). Students will discuss their work with one another in seminar meetings, and also in one-on-one meetings with the seminar leader throughout the semester. Each student will complete a term paper on a topic of his or her choice related to the issues covered in the seminar, and will leave the course with a polished piece of academic writing which they can use in applications to graduate school, as well as a detailed letter of recommendation from the seminar instructor. Credit units: 3 ECTS Credit Units: 4. Aut (D. H. Leonard)

TURKISH UNIT


COURSE DESCRIPTIONS

TURK 101 Turkish I
The meaning and nature of language; importance of language in society; language-culture relationship; world languages and Turkish; history and the present state of Turkish; Turkish languages; phonetic features of Turkish; structure of Turkish; punctuation and style; introduction to speech and composition. Credit units: 2 ECTS Credit
FACULTY OF HUMANITIES AND LETTERS


TURK 102  Turkish II
Basic principles of speech and composition; rules and forms of oral expression: addresses, lectures, panels, etc.; introduction to Turkish literature; analysis of selected texts from contemporary Turkish literature; introduction to ‘Divan’ literature; language of the Ottoman period, selected poems and prose texts; reading and oral interpretation of selections from Turkish and world literature; exercises in composition and report writing. Credit units: 2 ECTS Credit Units: 1. Aut (N. Çetiner, A. T. Görgü, S. Gözcü Ezen, E. Güler, A. Kaya, A. Şendöl, B. Taşkınar, G. Tuzcu, A. Uçar, S. Uyánık) Spr (Staff)

TURK 111  Basic Turkish I
The aim is to help the students comprehend spoken and written Turkish, express their ideas in written and oral form, and to acquaint them with an understanding of Turkish life and culture. Credit units: 3 ECTS Credit Units: 6. Aut (N. Mumcu Öz, N. Yılıksektepe) Spr (N. Mumcu Öz, N. Yılıksektepe)

TURK 112  Basic Turkish II
Sequel to TURK 111. Basic principles of speech and composition. Exercises in oral and written expression. Analysis of selected texts from Turkish literature and media. Credit units: 3 ECTS Credit Units: 6. Aut (N. Mumcu Öz) Spr (N. Mumcu Öz)

TURK 113  Basic Turkish III
The objective of the course is to provide the students with further skills and confidence in oral and written expression and to make them familiar with more complicated texts from different areas of Turkish intellectual life. Credit units: 3 ECTS Credit Units: 6. Aut (N. Tun) Spr (N. Mumcu Öz)

TURK 381  Advanced Turkish I
This course emphasizes on advanced use of the four basic language skills (reading, writing, speaking and listening). Students will be expected to comment on various articles, books (novels, stories, poetry) they read and multimedia materials they listen to or watch; both verbally and in writing. Credit units: 3 ECTS Credit Units: 6. Aut (N. Tun) Spr (N. Tun)

TURK 382  Advanced Turkish II
In this course, the students will participate in activities designed to improve all of the basic language skills. Development of verbal expression skills will be particularly emphasized and in this respect, students shall design a play to be staged at the end of the semester. Credit units: 3 ECTS Credit Units: 6. Spr (N. Tun)

FOREIGN LANGUAGES UNIT

E. Soyupak (Coordinator)

Chinese: Q. C. İlhan, S. E. Tuğlu.


Italian: A. Bezgin, A. Candoğan, Ö. Özduran, Ö. Saçak.

Japanese: S. Ohashi.


Russian: L. Alyeksyeyenkova, N. Hüseyin, G. Tanrikulu.

Arabic: A. Beyati.

Persian: A. Mianjadi.

Turkish: N. Mumcu Öz, N. Tun, N. Yılıksektepe.

Kurdish: M. S. Varli.
FOREIGN LANGUAGE COURSES

The Foreign Languages Unit offers basic- and intermediate-level courses in German, French, Italian, Japanese, Russian, Spanish, Chinese, Arabic and Persian. Advanced level courses as well as special-purpose courses emphasizing language skills in various professions are also offered. Credit Units: 3, ECTS Credit Units: 6

BASIC LEVEL COURSES

<table>
<thead>
<tr>
<th>Code</th>
<th>Course</th>
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<tbody>
<tr>
<td>GER 111/112/113/114</td>
<td>Basic German I / II / III / IV</td>
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<tr>
<td>FRE 111/112/113/114</td>
<td>Basic French I / II / III / IV</td>
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<tr>
<td>ITA 111/112/113/114</td>
<td>Basic Italian I / II / III / IV</td>
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<tr>
<td>SPA 111/112/113/114</td>
<td>Basic Spanish I / II / III / IV</td>
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<tr>
<td>RUS 111/112/113/114</td>
<td>Basic Russian I / II / III / IV</td>
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<tr>
<td>FRL 131/132/133/134</td>
<td>Basic Arabic I / II / III / IV</td>
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<td>FRL 141/142/143/144</td>
<td>Basic Persian I / II / III</td>
</tr>
<tr>
<td>JAP 111/112/113/114</td>
<td>Basic Japanese I / II / III / IV</td>
</tr>
<tr>
<td>FRL 155/156/157/158</td>
<td>Basic Chinese I / II / III / IV</td>
</tr>
<tr>
<td>FRL 181/182</td>
<td>Basic Adygei I / II</td>
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<tr>
<td>FRL 175/176</td>
<td>Basic Kurdis I / II</td>
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INTERMEDIATE LEVEL COURSES

<table>
<thead>
<tr>
<th>Code</th>
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<tbody>
<tr>
<td>GER 211/212/213/214</td>
<td>Intermediate German I / II / III / IV</td>
</tr>
<tr>
<td>FRE 211/212/213/214</td>
<td>Intermediate French I / II / III / IV</td>
</tr>
<tr>
<td>ITA 211/212/213/214</td>
<td>Intermediate Italian I / II / III / IV</td>
</tr>
<tr>
<td>SPA 211/212/213/214</td>
<td>Intermediate Spanish I / II / III / IV</td>
</tr>
<tr>
<td>RUS 211/212/213/214</td>
<td>Intermediate Russian I / II / III / IV</td>
</tr>
<tr>
<td>JAP 211/212</td>
<td>Intermediate Japanese I / II</td>
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<tr>
<td>FRL 255</td>
<td>Intermediate Chinese I</td>
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ADVANCED LEVEL COURSES

<table>
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<tr>
<th>Code</th>
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<tbody>
<tr>
<td>FRE 381/382</td>
<td>Communication Skills in French I / II</td>
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<tr>
<td>GER 381/382</td>
<td>Communication Skills in German I / II</td>
</tr>
</tbody>
</table>

LANGUAGE COURSES FOR SPECIFIC PROGRAMS

The following courses are designed for the students of the Archaeology department. Particular emphasis is given to text comprehension, and translation into Turkish.

<table>
<thead>
<tr>
<th>Code</th>
<th>Course</th>
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</thead>
<tbody>
<tr>
<td>FRE 401/402</td>
<td>Readings in French I / II</td>
</tr>
<tr>
<td>GER 421/422</td>
<td>Readings in German I / II</td>
</tr>
</tbody>
</table>

In the summer semester intensive language courses are offered to all students. These courses are designed to equip students with the knowledge and usage of grammar and with special emphasis on reading, writing and speaking skills.
**DEPARTMENT OF AMERICAN CULTURE AND LITERATURE**


Part-time: F. D. Özdemir.

The Department of American Culture and Literature offers a program leading to the Bachelor of Arts degree. The department offers a course selection that examines the United States in all its complexity, integrating literature, culture, and history. This interdisciplinary program will not only introduce students to the study of the United States but will also develop critical and creative thinking skills that will enable students to reflect upon their own culture and its history and literature. The newly revised curriculum seeks to ground students in the skills of close reading and textual analysis. Further, it asks students to consider works in their historical and cultural contexts, illustrating the complicated social relations that exist between writer, text, history, and reader. In recognition of the demands of contemporary professional and academic life, the program now requires courses in the natural and social sciences. The program, as is true of most other programs in the humanities, does not offer vocational training per se but rather develops fluency in English, analytical skills, and ability in written expression that will prepare students for success in their professional lives and in further academic study.

**UNDERGRADUATE PROGRAM**

**CURRICULUM**

**FIRST YEAR**

<table>
<thead>
<tr>
<th>Autumn Semester</th>
<th>Credits / ECTS Credits</th>
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<tbody>
<tr>
<td>AMER 115</td>
<td>Methods and Texts I</td>
</tr>
<tr>
<td>AMER 195</td>
<td>Introduction to American Studies I</td>
</tr>
<tr>
<td>CTE 191</td>
<td>Information and Communication Technology</td>
</tr>
<tr>
<td>ENG 101</td>
<td>English and Composition I</td>
</tr>
<tr>
<td>ENG 117</td>
<td>Advanced English Grammar I</td>
</tr>
<tr>
<td>GE 100</td>
<td>Orientation</td>
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<td>TURK 101</td>
<td>Turkish I</td>
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<table>
<thead>
<tr>
<th>Spring Semester</th>
<th>Credits / ECTS Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AMER 116</td>
<td>Methods and Texts II</td>
</tr>
<tr>
<td>AMER 196</td>
<td>Introduction to American Studies II</td>
</tr>
<tr>
<td>ENG 102</td>
<td>English and Composition II</td>
</tr>
<tr>
<td>ENG 118</td>
<td>Advanced English Grammar II</td>
</tr>
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<td>TURK 102</td>
<td>Turkish II</td>
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**SECOND YEAR**

<table>
<thead>
<tr>
<th>Autumn Semester</th>
<th>Credits / ECTS Credits</th>
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<tbody>
<tr>
<td>AMER 207</td>
<td>American Texts and Contexts I</td>
</tr>
<tr>
<td>AMER 293</td>
<td>American History I</td>
</tr>
<tr>
<td>GE 250</td>
<td>Collegiate Activities Program I</td>
</tr>
<tr>
<td>HIST 200</td>
<td>History of Turkey</td>
</tr>
<tr>
<td>HUM 111</td>
<td>Cultures Civilizations and Ideas I</td>
</tr>
<tr>
<td>MATH 103</td>
<td>Introductory Mathematics</td>
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<tr>
<td>SOC 101</td>
<td>Introduction to Sociology</td>
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<table>
<thead>
<tr>
<th>Spring Semester</th>
<th>Credits / ECTS Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>AMER 208</td>
<td>American Texts and Contexts II</td>
</tr>
<tr>
<td>AMER 294</td>
<td>American History II</td>
</tr>
<tr>
<td>GE 251</td>
<td>Collegiate Activities Program II</td>
</tr>
<tr>
<td>HUM 112</td>
<td>Cultures Civilizations and Ideas II</td>
</tr>
<tr>
<td>PHYS 200</td>
<td>Physics for Poets</td>
</tr>
<tr>
<td>POLS 104</td>
<td>Introduction to Political Science II</td>
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### THIRD YEAR

**Autumn Semester**

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<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>AMER 303</td>
<td>Film Studies in American Culture to 1960</td>
<td>4 / 8</td>
</tr>
<tr>
<td>AMER 343</td>
<td>American Theater</td>
<td>3 / 6</td>
</tr>
<tr>
<td>AMER 357</td>
<td>American Intellectual History I</td>
<td>3 / 6</td>
</tr>
<tr>
<td>AMER 383</td>
<td>American Novel to 1900</td>
<td>3 / 6</td>
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<td></td>
<td>Non Technical Elective</td>
<td>3 / 6</td>
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**Spring Semester**

<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits / ECTS Credits</th>
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<tbody>
<tr>
<td>AMER 304</td>
<td>Film Studies in American Culture Since 1960</td>
<td>4 / 8</td>
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<tr>
<td>AMER 358</td>
<td>American Intellectual History II</td>
<td>3 / 6</td>
</tr>
<tr>
<td>AMER 374</td>
<td>American Poetry</td>
<td>3 / 6</td>
</tr>
<tr>
<td>AMER 384</td>
<td>American Novel From 1900</td>
<td>3 / 6</td>
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### FOURTH YEAR

**Autumn Semester**

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<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>AMER 390</td>
<td>Summer Training</td>
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<tr>
<td>AMER 427</td>
<td>Topics in Theory for American Culture</td>
<td>3 / 6</td>
</tr>
<tr>
<td>AMER 459</td>
<td>Race and Ethnicity in American Culture</td>
<td>3 / 6</td>
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<td></td>
<td>Non Technical Elective</td>
<td>3 / 6</td>
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<td>Restricted Electives (2)</td>
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**Spring Semester**

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<thead>
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<th>Course Title</th>
<th>Credits / ECTS Credits</th>
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<tbody>
<tr>
<td>AMER 406</td>
<td>Senior Project</td>
<td>3 / 6</td>
</tr>
<tr>
<td>AMER 426</td>
<td>American Studies in a Global Context</td>
<td>3 / 6</td>
</tr>
<tr>
<td>AMER 492</td>
<td>Gender Studies in American Culture</td>
<td>3 / 6</td>
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<tr>
<td></td>
<td>Non Technical Elective</td>
<td>3 / 6</td>
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<td></td>
<td>Restricted Elective</td>
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### RESTRICTED ELECTIVES

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<th>Course Title</th>
<th>Credits / ECTS Credits</th>
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<tbody>
<tr>
<td>AMER 404</td>
<td>The 1950s</td>
<td>3 / 6</td>
</tr>
<tr>
<td>AMER 409</td>
<td>The Great Migration Novel</td>
<td>3 / 6</td>
</tr>
<tr>
<td>AMER 418</td>
<td>Contemporary American Short Story</td>
<td>3 / 6</td>
</tr>
<tr>
<td>AMER 419</td>
<td>Modern Latino Short Fiction</td>
<td>3 / 6</td>
</tr>
<tr>
<td>AMER 420</td>
<td>Readings in Southern Literature</td>
<td>3 / 6</td>
</tr>
<tr>
<td>AMER 428</td>
<td>Novels of Toni Morrison</td>
<td>3 / 6</td>
</tr>
<tr>
<td>AMER 429</td>
<td>Orientalism and American Culture 1860-1925</td>
<td>3 / 6</td>
</tr>
<tr>
<td>AMER 430</td>
<td>The Thirties: the Great Depression and the New Deal</td>
<td>3 / 6</td>
</tr>
<tr>
<td>AMER 434</td>
<td>Cold War Culture and Modernization</td>
<td>3 / 6</td>
</tr>
<tr>
<td>AMER 436</td>
<td>Media Communications Culture</td>
<td>3 / 6</td>
</tr>
<tr>
<td>AMER 437</td>
<td>American Film in Context</td>
<td>3 / 6</td>
</tr>
<tr>
<td>AMER 438</td>
<td>The Self in American Culture and History</td>
<td>3 / 6</td>
</tr>
<tr>
<td>AMER 439</td>
<td>The Art and Business of the Short Story</td>
<td>3 / 6</td>
</tr>
<tr>
<td>AMER 440</td>
<td>American Society and Globalization</td>
<td>3 / 6</td>
</tr>
<tr>
<td>AMER 441</td>
<td>Culture in its Historical Context</td>
<td>3 / 6</td>
</tr>
<tr>
<td>AMER 445</td>
<td>Modern American Drama</td>
<td>3 / 6</td>
</tr>
<tr>
<td>AMER 447</td>
<td>Topics in Cultural Studies</td>
<td>3 / 6</td>
</tr>
<tr>
<td>AMER 448</td>
<td>American Pragmatism</td>
<td>3 / 6</td>
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<tr>
<td>AMER 449</td>
<td>Modernity and Visuality</td>
<td>3 / 6</td>
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<tr>
<td>AMER 450</td>
<td>Representations of the City</td>
<td>3 / 6</td>
</tr>
<tr>
<td>AMER 451</td>
<td>Ethnic Literature</td>
<td>3 / 6</td>
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<tr>
<td>AMER 456</td>
<td>Race and Media in the U.S.</td>
<td>3 / 6</td>
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<tr>
<td>AMER 458</td>
<td>History of American Presidential Campaigns</td>
<td>3 / 6</td>
</tr>
<tr>
<td>AMER 460</td>
<td>Contemporary Native American Writers</td>
<td>3 / 6</td>
</tr>
<tr>
<td>AMER 461</td>
<td>The History of the Book in America</td>
<td>3 / 6</td>
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<tr>
<td>AMER 462</td>
<td>Transatlantic Currents in American Women's Fiction and Poetry</td>
<td>3 / -</td>
</tr>
<tr>
<td>AMER 463</td>
<td>Race and Ethnicity in American Women Writers</td>
<td>3 / 6</td>
</tr>
<tr>
<td>AMER 467</td>
<td>The Early American Metropolis</td>
<td>3 / 6</td>
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</table>
MINOR PROGRAM

The Minor Program in American Culture and Literature takes an interdisciplinary approach to the study of the United States, its people, and its culture. The program allows students from any academic background to explore the main themes and ideas of American literature, film, theater, poetry, and history. Such ideas include gender, race, ethnicity, and other forms of identity. Moreover, the program will allow students to increase their fluency in English, as courses emphasize developing their reading, writing, and analytical skills. At the end, students should have a much better understanding of what the term "American" means, as courses and instructors seek to replace a superficial understanding of America with a deeper, more layered, and more nuanced understanding.

Prerequisite Courses:
A minimum grade of B- in ENG 102

CURRICULUM

UNDERGRADUATE COURSES

AMER 115 Methods and Texts I
This course gives students the critical methods necessary to interpret a variety of social texts. The primary mode of organization is around genre. A unit on poetry will teach students to identify poetic forms and to scan lines; a unit on fiction will address such issues as narrative voice, characterization, and symbolism; a unit on drama will examine the dimensions of staging and performance; a unit on film will teach students to approach texts in two and three dimensions; a unit on music will examine harmony, musical form, and performance; and a unit on nonfiction prose will examine the status of objectivity in source materials. Other major issues concern the distinction between literal and figurative language, terms for literary studies, and the linguistic diversity of the United States. Students will also learn how to develop a bibliography and how to cite sources using established styles. Credit units: 3 ECTS Credit Units: 7. Aut (C. Ireland)

AMER 116 Methods and Texts II
This course continues the work of AMER 115. The primary mode of organization is around genre. A unit on drama will examine the dimensions of staging and performance. A unit on film will continue the study of the formal components of fiction. Credit units: 3 ECTS Credit Units: 7. Prerequisite: AMER 115 or AMER 117. Spr (C. Ireland)
AMER 195  Introduction to American Studies I
This course provides an introduction to the interdisciplinary study of American culture and literature. Through consideration of exemplary moments and problems in the history of the United States, students will consider how different disciplines (history, cultural studies, textual criticism, political science, or sociology) provide interpretive strategies for American studies. In addition, students will be asked to consider how these disciplinary approaches might be combined or integrated into an interdisciplinary method. Throughout the course, a foundation of knowledge in American geography, political systems, demography, institutions, economics, and social structure will be established so as to create the possibility of further study. Tutorial support will be provided. Credit units: 3 ECTS Credit Units: 7, Aut (F. D. Özdemir, J. A. Reimer)

AMER 196  Introduction to American Studies II
This course continues the work of AMER 195 in building a foundation for the interdisciplinary study of the United States. In this semester, students will study such as education, political systems, gender, race, and class in greater depth. Specifically, students will examine primary documents to develop their understanding of these topics. Tutorial support will be provided. Credit units: 3 ECTS Credit Units: 7, Prerequisite: AMER 195. Spr (F. D. Özdemir, J. A. Reimer)

AMER 207  American Texts and Contexts I
This course provides an interdisciplinary node of connection between the survey in history and the survey in literature. Drawing from exemplary moments and problems in American culture from the beginnings to the Civil War, the course asks students to relate a variety of primary sources to broader contextual issues. This course will be writing intensive, with tutorial support provided. Credit units: 4 ECTS Credit Units: 6, Prerequisite: AMER 116 and AMER 196. Aut (E. L. Demirtürk)

AMER 208  American Texts and Contexts II
This course provides an interdisciplinary node of connection between the survey in history and the survey in literature. Drawing from exemplary moments and problems in American culture from the Civil War to the present, the course asks students to relate a variety of primary sources to broader contextual issues. This course requires writing intensively, with tutorial support provided. Credit units: 4 ECTS Credit Units: 6, Prerequisite: AMER 207. Spr (E. L. Demirtürk)

AMER 293  American History I
A study of the history of the United States, with particular attention to the colonial era, the American Revolution, the early national period, and the Civil War. Credit units: 3 ECTS Credit Units: 6, Prerequisite: AMER 116 and AMER 196. Aut (D. P. Johnson)

AMER 294  American History II
A study of the history of the United States, beginning with the Reconstruction era and devoting particular attention to the Gilded Age, the Great Depression, the two World Wars, and the Cold War. Credit units: 3 ECTS Credit Units: 6, Spr (D. P. Johnson)

AMER 303  Film Studies in American Culture to 1960
This course is designed to introduce students to American film studies and cultural history, including issues pertaining to aesthetic analysis, film genres and issues of representation -from the beginnings of film history until 1960. Credit units: 4 ECTS Credit Units: None, Prerequisite: AMER 207 or AMER 293. Aut (J. A. Reimer)

AMER 304  Film Studies in American Culture Since 1960
This course is designed to introduce students to American film history and culture, including issues pertaining to aesthetic analysis, film genres, and issues of representation from 1960 to the present. Credit units: 4 ECTS Credit Units: 8, Spr (H. Vural Johnson)

AMER 343  American Theater
A study of selected 20th century plays, movements, and issues raised by the study of theater, including its relationship to mass cultural forms, state support, and documentary truth. Writers will include Lorraine Hansberry, Arthur Miller, Eugene O’Neill, Marc Blitzstein, Arthur Arsent, Luis Valdez, and Anna Deavere Smith. Credit units: 3 ECTS Credit Units: 6, Prerequisite: AMER 207 or AMER 293. Aut (H. Vural Johnson)

AMER 357  American Intellectual History I
This course will ideal with the intellectual history of the United States from the colonial era to the Civil War. It will explore such topics as the Puritan tradition, republican ideology in America, Tocqueville and democracy, the Transcendentalists, the debate over slavery, views on the role of women in the new republic, and antebellum social science. Primary texts by John Winthrop, Benjamin Franklin, Thomas Paine, Thomas Jefferson, James Madison, Alexis de Tocqueville, Ralph Waldo Emerson, Henry David Thoreau, William Lloyd Garrison, David Walker, Frederick Douglass, Sarah Grimke, Catharine Beecher, Margaret Fuller, Horace Bushnell, Henry C. Carey, and George Fitzhugh will be read and discussed in the course. Credit units: 3 ECTS Credit Units: 6, Prerequisite: AMER 207 or AMER 293. Aut (D. P. Johnson)

AMER 358  American Intellectual History II
This course will deal with the intellectual history of the United States from 1865 to the present. It will explore such topics as the pragmatist tradition, the plight of African Americans and their struggle for civil rights and
economic betterment, the American social sciences, intellectuals and the public sphere, feminist thought, trends in American literary studies and cultural studies, debates over multiculturalism, the controversy over the “clash of civilizations”, and recent American thought on the philosophy and history of science. Writers to be considered include: Lester Frank Ward, William Graham Sumner, Charlotte Perkins Gilman, W.E.B. Du Bois, William James, John Dewey, Margaret Mead, Gunnar Myrdal, Henry R. Luce, Henry Wallace, J.K. Galbraith, Milton Friedman, Martin Luther King Jr., Malcolm X, Lionel Trilling, Susan Sontag, Betty Friedan, Gloria Anzaldua, Hannah Arendt, Herbert Marcuse, Edward Said, Samuel Hutington, Russell Jacoby, T.S. Kuhn, and Walter Benn Michaels. Credit units: 3 ECTS Credit Units: 6. Spr (D. P. Johnson)

AMER 374 American Poetry
This course studies the social and formal development of poetic expression in the United States, with particular attention given to Bradstreet, Wheatley, Whitman, Dickinson, Longfellow, Crane, Pound, Eliot, Hughes, Brooks, Lowell, Frost, and Rich. Credit units: 3 ECTS Credit Units: 6. Spr (J. A. Reimer)

AMER 383 American Novel to 1900
Introducing the novel as a literary form, the course offers a history of the development of the novel in America. Students are expected to apply various approaches to the reading of any selected novel or novels. Authors may include Hawthorne, Melville, Twain, S. Crane, H. James, R. Hall, K. Chopin, R.H. Davis, E. Wharton, C. Perkins Gilman, K.A. Porter, A. Smedley. Credit units: 3 ECTS Credit Units: 6. Prerequisite: AMER 207 or AMER 293. Aut (E. L. Demirtürk)

AMER 384 American Novel From 1900
A study of novels covering the period from 1900 to the present. Selections can include works by E. Hemingway, F.S. Fitzgerald, W. Faulkner, J. Steinbeck, W. Cather, T. Dreiser, J. Smiley, and “popular” novels, novels by women, African-American, Native American, and ethnic writers. Credit units: 3 ECTS Credit Units: 6. Spr (E. L. Demirtürk)

AMER 390 Summer Training
The minimum time for this practice in an organization is six weeks (30 workdays). The main objective is to observe a non-academic organization in an original setting, with the idea of applying skills learned in AMER, learning new skills, and preparing for a life after university. Organizations can be any of the following: think-tanks, human rights organizations, NGOs, charities, business and law firms, newspapers, magazines, broadcasting companies, publishing houses, etc. Students are especially encouraged to find community service-oriented training, in order to learn responsibility both for oneself and others. It is crucial to secure the approval of the department chair re the suitability of the intended summer training place. Students should do this before they make arrangements with the organization. A written report summarizing training experience is required. Credit units: None ECTS Credit Units: None. Aut (E. P. Kohn)

AMER 406 Senior Project
The minimum time for this practice in an organization is six weeks (30 workdays). The main objective is to observe a non-academic organization in an original setting, with the idea of applying skills learned in AMER, learning new skills, and preparing for a life after university. Organizations can be any of the following: think-tanks, human rights organizations, NGOs, charities, business and law firms, newspapers, magazines, broadcasting companies, publishing houses, etc. Students are especially encouraged to find community service-oriented training, in order to learn responsibility both for oneself and others. It is crucial to secure the approval of the department chair re the suitability of the intended summer training place. Students should do this before they make arrangements with the organization. A written report summarizing training experience is required. Credit units: 3 ECTS Credit Units: 6. Spr (E. P. Kohn)

AMER 425 American Studies in a Global Context
Following the critical examination of American nationality in AMER 425, this course will attempt to understand the notion of America in a global context. Our examination will begin with an attempt to understand the construction of the United States, with specific reference to European colonialism, the transatlantic slave trade, and the rise of the nation-state. Then, we will examine contemporary theories of the globalization of American culture; we will map the flows of American cultural products and ideas into such locations as West Africa, South Asia, and Turkey itself. Credit units: 3 ECTS Credit Units: 6. Spr (C. Ireland)

AMER 427 Topics in Theory for American Culture
This course offers an introduction to critical and cultural theory with specific reference to problems in American Studies. Students will be encouraged to think critically about issues concerning narrative form, knowledge and power, culture, “common sense,” gender, race, and hegemony within the context of American culture and history. Selections from Barthes, Benjamin, Lyotard, Foucault, Gramsci, Bederman, Wiegman, Haraway, Jackson Lears, Denning, and others will be read for the course. Credit units: 3 ECTS Credit Units: 6. Prerequisite: AMER 303 or AMER 357. Aut (C. Ireland)

AMER 430 The Thirties: the Great Depression and the New Deal
This course will examine the nineteen-thirties, a crucial decade in twentieth-century United States history. We will examine the causes and consequences of the Great Depression, the New Deal of President Franklin D. Roosevelt, and the political, cultural, and intellectual developments of this era. The course will emphasize a
historical approach to the thirties, but will also examine the literature, film, art, and music of this decade. Credit units: 3 ECTS Credit Units: 6.

AMER 441 Culture in its Historical Contexts
To discuss culture is itself a cultural practice. This course, then, will consider recent cultural concerns about self-identity and social memory while at the same re-situating such concerns in their social and economic context. This is an interdisciplinary course that involves the reading of literary and philosophical texts. Although no prior background in philosophy or history is required, it is expected that students be familiar with writing documented research papers at the 4th year level. Credit units: 3 ECTS Credit Units: 6.

AMER 447 Topics in Cultural Studies
This course introduces students to comparative analytical tools and diverse archival material for reading contemporary culture and institutions. Readings will be framed by theories of transnationalism and cosmopolitanism and will offer new paradigms for thinking about multi-sited cultural production and the global circulation of textual and visual forms. The course will enable a rethinking of modernity, postmodernity, mobility, borders and boundaries. Credit units: 3 ECTS Credit Units: 6.

AMER 448 American Pragmatism
The purpose of this course is to examine the contribution of American Pragmatism to intellectual thought and contemporary criticism. We will read during the first two-thirds of the semester the writing of two “classical” American Philosophers, William James and John Dewey, as well as selected texts from the intellectual forefather of American Pragmatism, Ralph Waldo Emerson. Pragmatism offers, among other things, distinctive accounts of knowledge, ethics, social progress, democracy, the individual, social conflict, self-expression, the scientific method, culture, and education. We will examine many of these in detail and then in the last portion of the semester turn to contemporary advocates of Pragmatism (such as Richard Rotry, Cornel West, and Richard Posner) in order not only to identify lines of continuity and break between classical and contemporary pragmatism, but also to critically assess the contributions of each to ongoing social inquiry and criticism. Credit units: 3 ECTS Credit Units: 6.

AMER 450 Representations of the City
This course considers the experience of living in the modern and postmodern city in selected texts by Puerto Rican, African-American, and Turkish writers. Our emphasis will be on the ways in which these writers have portrayed the disadvantages and promises of urban life. In view of these texts we will be looking at the different ways the urban experience is represented in different cultures. The film screenings, written essay assignments and presentations will provide us with the vital historical, social and political backdrop upon which we will build our understanding of each text. Credit units: 3 ECTS Credit Units: 6.

AMER 451 Ethnic Literature
The literature produced by the ethnic subculture in America will be examined with special emphasis on its characteristics. Major writers’ works from various groups (Jewish, Native-American, Chicano, Asian American) will be discussed. Credit units: 3 ECTS Credit Units: 6.

AMER 456 Race and Media in the U.S.
Race and Media in the U.S.
This course will critically examine the role of the media in enabling or challenging the social constructions of race in American society. It will take an interdisciplinary approach to analyzing the issue of race mainly focusing on its media representations. In covering race, readings in the course will primarily address the experiences of African Americans under the light of the White Studies. However, this course will center on experiences of African Americans, who lived on both sides of the racial divide both as black and white people at different stages of their lives as well as those who ‘pass for white.’ We will be watching a variety of films all through the semester: TV series such as the Jeffersons, Shirley Temple movies with Bill ‘Bojangles’ Robinson, S. Poitier’s Guess Who is Coming to Dinner, and more contemporary movies will be discussed. Since race and gender in this course will be viewed as interlocking social systems, we will discuss gender and class, when the need arises for it in our discussions. The reading materials include a textbook: We will read Robert M, Entman & Andrew Rojecki, The Black Image in the White Mind: Media and Race in America (Chicago: The University of Chicago P, 2000), while the course package will include articles on critical work, based on a cultural studies approach to race, gender, and class in the media. Credit units: 3 ECTS Credit Units: 6.

AMER 458 History of American Presidential Campaigns
Every four years the United States picks its president. Campaigns for the presidency have ranged from a few drunken, raucous, and even violent weeks in the nineteenth century, to the very sophisticated and year-long “packaging” of the presidency today. This course will look at the evolution of American presidential campaigns, with an emphasis on the changing “political culture” in the United States. As well as looking at key texts, the class will explore the media of American politics, from newspapers and political cartoons, to radio, television, and the dawn of internet campaigning. In particular we will focus on the current presidential campaign in the United States, as the Democrats and Republicans pick their candidates for 2008. Credit units: 3 ECTS Credit Units: 6.

Aut (E. P. Kohn)
AMER 459  Race and Ethnicity in American Culture
This course presents a comparative study of the culture and writings of major ethnic groups in the US. Students will be exposed to the cultural expression and the processes of identity formation for various groups, including Latino/as, Native Americans, African Americans and Italian-, Irish-, and Asian Americans. Students will study key texts in the field. Topics may include theories of assimilation, integration, and colonization, conceptual models such as “whiteness,” and the “melting pot,” and historical responses to immigration, such as ethniccline, eugenics, and repatriation, as backdrop to the complex roles played by race and ethnicity in the US. Credit units: 3 ECTS Credit Units: 6. Prerequisite: AMER 303 or AMER 357. Aut (E. L. Demirtürk)

AMER 460  Contemporary Native American Writers
A study of the fiction and poetry of Native American writers covering the period from 1945 to the present. Selections may include works by Sherman Alexie, Joseph Bruchac, Louise Erdrich, Joy Harjo, N. Scott Momaday, and Leslie Marmon Silko, as well as other contemporary Native American writers. Credit units: 3 ECTS Credit Units: 6. Aut (J. A. Reimer)

Multi-ethnic literature of Americas reveal a distinctive mental journey out of which men and women have sought to become their own persons with a bi-cultural or multi-cultural identities. Members of different ethnoracially constituted groups-whites, blacks, Latinos, Chinese, Vietnamese, Cambodian, Indian, and Arab Americans-have come to inhabit discrete urban spaces in contemporary America. The painful transformation that migrants suffer when facing a new reality reveal the ways in which they transcended circumscribed traditional lives and roles by becoming intellectuals, careerists, and writers that are expressed in different narrative styles. The conflicting voices of a male/female and an immigrant blend and argue, as the writers’ experiences as (im)migrant wo/men are incorporated into narratives which assert, accept and celebrate a freer life in the new homeland. These struggles between different value-systems of different cultures become the common pattern of these lives and writings. Hence, in this course we will explore how migrants’ narratives re-define their identities in excerpts, stories and novels by such writers as Bharati Mukherjee, Nami Mun, Junot Diaz, Wes Moore, Randa Jarrar, Dinaw Mengestu, Bich Minh Nguyen, Helena Maria Viramontes, Chang-Rae Lee. We will also watch DVD’s of interviews of some of the writers. Credit units: 3 ECTS Credit Units: 6.

AMER 469  American Law Culture and Society
Landmark cases in American law not only reflect the cultural values and social institutions of their time, they often dramatically transform them. In this course we will examine famous cases involving such important social issues as slavery, segregation, personal privacy, freedom of speech, capital punishment, torture, prostitution, medical experiments, and education. We will try to understand the conflicts that provoked these confrontations and bring our own judgement to bear on the results. We will also discuss distinctive theories of law that both emerged from and governed the career of these cases. Credit units: 3 ECTS Credit Units: 6.

AMER 474  Colonialism and the Making of the New World
The European ‘discovery’ of the Americas at the end of the fifteenth century was a transformative moment in world history. This course will explore the impact of the European exploration and colonization of the Americas from a variety of historical and theoretical perspectives. We will give particular attention to the experiences of those exploited by the European colonial project through the critical analysis of historical and contemporary representations of the peoples and cultures of the New World. Credit units: 3 ECTS Credit Units: 6. Spr (D. P. Johnson)

AMER 475  American Culture and Politics in the 1970’s
This course will examine the important and tumultuous decade of the “long 1970s” in American culture and politics. From the watershed moment of the lunar landing in 1969 to the election of Ronald Reagan in 1980, this was a decade marked by political turmoil and dynamic social change. Key films and events from this era will be analyzed to shed light on this culturally complex decade in American history. Credit units: 3 ECTS Credit Units: 6. None.

AMER 477  American Gothic
This course explores Gothic short stories, novels, poems, and films by American authors. The gothic, which narrates unspeakable crimes, supernatural adventures, and descents into madness, expresses collective anxieties. What inspires fear? In what ways does American gothic respond to specific political, scientific, and societal developments in the United States? To address these questions we will link gothic tropes (hidden corpses, disembodied voices, and labyrinthine spaceships) to historical developments in science, and religion, as well as ideologies of race and gender. The reading list may include works by Charles Brockden Brown, Edgar Allan Poe, Nathaniel Hawthorne, Charlotte Perkins Gilman, Flannery O’Connor, Henry James, and H.P. Lovecraft. Films may include Alien, Event Horizon, or Rosemary’s Baby. Credit units: 3 ECTS Credit Units: 6.

AMER 479  Sexuality Studies in American Culture
This course will take a genealogical approach to the construction and perception of normative and deviant sexualities in the United States. Though the main focus will be on American conceptions of sexuality, we will also be reading texts by authors outside of the U.S. who have profoundly influenced this field of study. For example we will read parts of Freud’s Three Essays on the Theories of Sexuality and Foucault’s The History of Sexuality.
We will also watch independent and mainstream films (such as *The Adventures of Priscilla, Queen of the Desert* directed by Stephan Elliott in 1994 and *Brokeback Mountain* directed by Ang Lee in 2005) and documentaries along with reading legal/human rights documents, literary and theoretical texts (such as *The California Marriage Protection Act*, better known as Proposition 8, and *Maribeth & Jean Come Home, We are Family, and Meet the Moyas* directed by John Keitel) that challenge American norms regarding sexuality. Credit units: 3 ECTS Credit Units: 6.

**AMER 480 **Hemispheric American Studies

A “hemispheric” approach to American Studies means looking at North, Central, and South America as one large unit known as the Americas. The goal of this course will be to expose students to various literary texts, films, and public policy/legislate from various countries in the Americas. For example, we will read U.S. legal documents such as HB 56 and SB 1070 along side such authors as Jorge Luis Borges, Richard Rodriguez, Junot Diaz, Adolfo Caminha, Sandra Cisneros, Esmeralda Santiago, Pablo Neruda, Gabriel Garcia Marquez, Isabel Allende (and others). This panoramic view of the Americas will provide students with a theoretical framework to better understand the U.S. in relation to its closest neighbors and to see how literature functions as theory throughout Latin America. The major languages of the Americas are English, Spanish, and Brazilian Portuguese. In this class we will read texts in translation and also, at times, watch films in their native languages with English subtitles. Because the issue of national borders is such an important and contentious issue, a section of the class will be dedicated to “Border Studies” in the U.S. and beyond. Credit units: 3 ECTS Credit Units: 6.

**AMER 482 **Creative Writing Workshop

This course is a workshop-based seminar designed to develop your English writing voice creatively, through reading, writing, sharing, and critical conversation. Together we will explore the diversity of creative expression in English, and enact these explorations in our own writing. We will supplement writing exercises with a selection of readings in poetry, short fiction, creative nonfiction/personal essay, and cross-genre writing. We will also spend part of the course discussing how to create a writing portfolio: independent, small-press, and self-publishing; how to submit/query for publication; and how to find publications and presses that are a “good fit” for our work. The course is open to students from all disciplines even if they lack a background in literature. Credit units: 3 ECTS Credit Units: 6. Spr (J. A. Reimer)

**AMER 485 **Black Power in American Studies

This course explores the rise of Black Nationalism in the United States. The history of American Black Nationalism will be studied from its earliest roots in the late nineteenth century, focusing on such key figures as Booker T. Washington, Marcus Garvey, and Malcolm X. Special attention will be given to the conflict between civil rights liberals such as Martin Luther King, Jr., and Black Power advocates during the Civil Rights Era. Readings will include autobiographies of Booker T. Washington and Malcolm X, as well as influential Black Power texts such as James Baldwin’s “The Fire Next Time.” In addition to readings, the rise of American Black Nationalism will be explored through various media including art, film, and photography. Credit units: 3 ECTS Credit Units: 6. Spr (Staff)

**AMER 492 **Gender Studies in American Culture

This course offers an introduction to the critical role that gender has played in the structure of American society. It examines theories of gender and society as they have evolved in recent years. Students consider how feminism and other gender-sensitive critical practices help us to understand problems in U.S. society. Credit units: 3 ECTS Credit Units: 6. Spr (Staff)
DEPARTMENT OF ARCHAEOLOGY


Part-time: A. C. Abuagla.

Teaching and research activities of the department concentrate on the archaeology, history and art of Anatolia, the Mediterranean, and the ancient Near East. Students will have opportunities to take part in excavations and surveys conducted by department members at the multi-period sites of Hacimusalar-Elmalı (Antalya) and Kinet Höyük-Döşemel (Hatay).

UNDERGRADUATE PROGRAM

The aim of the undergraduate program in the Department of Archaeology is to provide a thorough and comprehensive understanding of archaeology, ancient history and art. The curriculum includes practical as well as academic work. There will be field trips to museums and sites in Turkey, and students will have the opportunity to participate in departmental survey/excavation projects; arrangements might also be made for students to take part in excavations and expeditions sponsored by other institutions.

The first two years of the program embrace a wide range of essential introductory subjects designed to familiarize the student with the background material required for the more specialized subjects offered over the following two years. In the third and fourth years, besides the compulsory courses, the student has the opportunity to choose elective topics in his or her field of particular interest. One of the options in the fourth year is supervised study on a topic of the student’s own choice, at the end of which the student will produce a short dissertation. This particular elective will be offered to students who would like to continue with graduate studies in the field of archaeology or related subjects. Every student is required to take at least one ancient language (Greek and Latin are offered). A basic knowledge of ancient Greek or Latin is invaluable for those students who decide to specialize in Greek or Roman art and archaeology, or ancient history.

At the end of the program the student will emerge with a good knowledge and comprehension of most aspects of Near Eastern, Mediterranean, and European art and archaeology from the Prehistoric period onwards. Emphasis will of course be placed on Anatolian civilizations since the environment at Bilkent provides an ideal opportunity for first-hand familiarity with the ancient sites and monuments of this country.

UNDERGRADUATE CURRICULUM

FIRST YEAR

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# Department of Archaeology

## Second Year

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<td>Department Electives (2)</td>
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## Fourth Year

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## Department Electives

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<td>HART 315</td>
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<td>Achaemenian Art and Archaeology</td>
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<td>Greek Sanctuaries</td>
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<td>Museum Education</td>
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<td>HART 420</td>
<td>Readings in Prehistory</td>
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<td>Archaeological Conservation</td>
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<td>HART 424</td>
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<td>HART 430</td>
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<td>HART 431</td>
<td>The Archaeology of Cyprus in the Bronze Age</td>
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<td>HART 434</td>
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<td>HART 439</td>
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<td>Readings in Roman Art and Archaeology</td>
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<td>HART 474</td>
<td>Neo-Assyrian Art and Archaeology</td>
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<td>HART 490</td>
<td>Supervised Study</td>
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<td>HART 491</td>
<td>Readings From Near Eastern Texts</td>
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<tr>
<td>HART 492</td>
<td>Readings From Greek/Latin Texts</td>
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**MINOR PROGRAM**

The Minor Track in Archaeology aims to provide students with a useful and appreciated background for many careers different from "hardcore archaeology", such as publishing, tourism, communications, law, management and finance, international relations, and government service. The Minor track is designed to equip candidates with both broad and in-depth knowledge in Pre-Classical and Classical archaeology, its current research objectives, methodologies and applications, to supplement their Major studies in a firm and enduring way.

**Prerequisite Courses:** None
CURRICULUM

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<thead>
<tr>
<th>Courses</th>
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<tr>
<td>HART 111 Introduction to Archaeology</td>
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<tr>
<td>HART 120 Human Evolution and World Prehistory</td>
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<tr>
<td>HART 202 Introduction to Mesopotamian and Egyptian Archaeology</td>
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</tr>
<tr>
<td>HART 212 Introduction to Classical Archaeology</td>
<td>3 / 6</td>
</tr>
<tr>
<td>HART electives (2)</td>
<td>6 / 12</td>
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HART electives: HART courses excluding ancient languages and certain technical courses like Archaeological Drafting and Illustration.

GRADUATE PROGRAMS

Master of Arts in Archaeology

The Department of Archaeology offers a graduate program leading to the M.A. degree. The program focuses on the archaeology and art of Anatolia from the Prehistoric to the Medieval period, within its Mediterranean and Near Eastern context. Instruction is primarily through courses that encourage independent research, and emphasis is placed on individuality of thought as well as a thorough knowledge of the field and the application of critical methods to archaeological problems.

Admission: Applicants are normally expected to have an undergraduate major in archaeology, history of art, anthropology, or a related subject, and must demonstrate a proficiency in English. Students from other disciplines are also eligible for the program, providing they remedy deficiencies in their academic background by completing a year of preparatory courses prior to beginning the Master's program. (Also refer to the “Graduate Admissions” section in the introduction of this catalog for the general graduate admission requirements.)

Degree Requirements: The M.A. offered by the department focuses on the archaeology and art of Anatolia. The program requires students to complete (generally over three semesters) a minimum of 27 units of course work (a total of at least 9 courses), comprising core courses in Archaeological Method and Theory, The Interpretation of Art Historical Materials, Research Directives in Anatolian Art and Archaeology and/or Ethnoarchaeology, and a minimum of three seminars in at least two of the following subjects: Pre-Classical, Classical and Medieval Art and Archaeology. A range of seminar topics is offered within each specified period, and these are varied each semester according to the needs of the students and the specialties of the instructors. Students who wish to concentrate on Classical Archaeology are required to take Ancient Greek or Latin, or both. Medieval specialists have the opportunity to study Ottoman Turkish and Paleography (offered through the History Department). Students who wish to supplement their academic background are permitted to attend undergraduate lecture courses and seminars either as auditors or for extra credit.

By the end of the second year the student will complete a Master's thesis in a specialized field of study. Participation in an approved field project is also an integral part of the program, and by the second year at the latest a reading knowledge of French or German must be demonstrated through examination.

GRADUATE CURRICULUM

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HART 507 Pre-Classical Art and Archaeology .................................. 3 / 6
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HART 503 Issues in Conservation and Preservation ......................... 3 / 6
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COURSE DESCRIPTIONS

UNDERGRADUATE COURSES

HART 102 Introduction to Research Skills
Examination of a theme concerning the art, architecture, and archaeology of the Mediterranean basin and the Near East, with emphasis on developing the skills essential for successful university study: reading scholarly works, taking notes, identifying research problems, writing papers (both short reports and longer research papers), giving oral presentations, and taking part in discussions. The topic examined will vary from year to year, depending on the interests of the instructor. Credit units: 3 ECTS Credit Units: 6. Spr (C. V. Gates)

HART 111 Introduction to Archaeology
This course provides background material essential for any student of archaeology, covering such topics as the history of archaeological research and excavation, major archaeological discoveries of past centuries, modern excavating, surveying and recording techniques, dating methods, identification of sites and the topographical factors involved in locating ancient settlements. Credit units: 3 ECTS Credit Units: 4. Aut (T. Zimmermann)

HART 117 Ways of Seeing: Approaches to Art and Architectural History
A thematic introduction to great works of art and architecture, techniques of analysis, and methods of interpretation. Examples studied will be taken from cultures around the world, ancient, medieval, and modern, with the majority coming from the western tradition. Themes explored will include: form; style; iconography (the subject matter of art); images of the sacred; architecture and ritual; politics and art; landscapes and natural settings;
private architecture: the house; and perspectives from sociology, Marxism, feminism, and semiotics. **Credit units:** 3 ECTS **Credit Units:** 4. **Aut (C. V. Gates)**

**HART 120 Human Evolution and World Prehistory**
This course is a survey of the human prehistory of Africa, Europe and Asia from the first hominids to the Mesolithic period, with particular emphasis on morphological evolution, environment and cultural developments. **Credit units:** 3 ECTS **Credit Units:** 6. **Spr (J. Morin)**

**HART 202 Introduction to Mesopotamian and Egyptian Archaeology**
This course will survey the ancient civilizations of Mesopotamia (modern Iraq) and Egypt at the time of their greatest achievements (4000-550 BC), from the invention of writing and the engineering of the pyramids, to large-scale urbanism and far-flung economic networks. An archaeological focus on settlement patterns, architecture and artifacts will document how the cultures of these two regions evolved, and what interconnections may have linked them. **Credit units:** 3 ECTS **Credit Units:** 6. **Aut (M. Gates)**

**HART 212 Introduction to Classical Archaeology**
This course surveys major aspects of the materials cultures of Ancient Greece and Rome, beginning with the Iron Age of Greece and concluding with the decline of the Western Roman Empire: their architecture, their arts, their economic and social development in urban and rural settings, as well as the way in which scholars have approached the field over its history. Equal weight is given to the development of Classical Greece, its Hellenistic expansion, and the Roman domination of the Mediterranean. **Credit units:** 3 ECTS **Credit Units:** 6. **Spr (F. I. Özgen)**

**HART 219 Anatolian Archaeology, Neolithic to the Iron Age**
An introduction to the ancient sites and monuments of Anatolia and its relations with the surrounding cultures from the beginning of urban civilization (ca. 7th millennium BC) to the Early Iron Age. **Credit units:** 3 ECTS **Credit Units:** 5. **Aut (F. I. Özgen)**

**HART 221 Great Discoveries from the Ancient World**
Archaeologists find and study a wide range of things - from preserved footprints to frozen bodies, from fossilised skulls to battlefield relics, from cities lost in the jungle to those buried by falling ash. Specifically designed for the non-archaeologist, this course demonstrates how discoveries like these as well as the study of the many monuments left to us by ancient societies have revolutionised our knowledge of man's past. Specifically designed for non-archaeologists, the course examines and assesses some of the more important archaeological discoveries and monuments that have helped change our view of the past, including some of the more famous and well-known 'finds', such as Tutankhamun's Tomb and Troy, as well as several of the less-well known 'discoveries and monuments', as with the site of Custer's Last Stand and the Easter Island statues. **Credit units:** 3 ECTS **Credit Units:** 6. **Aut (J. Bennett)**

**HART 225 Cultural Anthropology**
Survey of the basic data and methods of research in the material culture of ancient societies in historical context, illustrating the principles of cultural behavior. Exploration of selected basic concepts and theories of contemporary anthropology. Current problems in relation to materials from the Old World. **Credit units:** 3 ECTS **Credit Units:** 6. **Spr (C. V. Gates)**

**HART 231 Ancient Greek I**
Introduction to ancient Greek for beginning students. The course will emphasize both grammar and reading. **Credit units:** 3 ECTS **Credit Units:** 6.

**HART 232 Ancient Greek II**
Completion of the grammar and vocabulary acquisition started in Ancient Greek I. **Credit units:** 3 ECTS **Credit Units:** 6, **Prerequisite:** HART 231.

**HART 239 Latin I**
Introduction to Latin for beginning students. The course will emphasize both grammar and reading. **Credit units:** 3 ECTS **Credit Units:** 6, **Prerequisite:** HART 239, **Spr (A. C. Abuagla)**

**HART 240 Latin II**
Completion of the grammar and vocabulary acquisition begun in Latin I. **Credit units:** 3 ECTS **Credit Units:** 6, **Prerequisite:** HART 239, **Spr (A. C. Abuagla)**

**HART 303 Greek Sculpture**
The course will concentrate on the development of Greek sculpture with special emphasis on the state of research, on new interpretations of images and on the methodology of interpretation. **Credit units:** 3 ECTS **Credit Units:** 6.

**HART 305 Byzantine and Islamic Art and Archaeology**
A survey of art, architecture, and archaeology of the Mediterranean and Near East in the medieval and early modern periods, from Constantine the Great to the 18th century. Focus will be on the art and architecture of the Late Roman and Byzantine empires in Italy and the eastern Mediterranean basin and of Islamic states from the
Umayyad and Abbasid caliphates to the Ottoman, Safavid, and Mughal empires. Credit units: 3 ECTS Credit Units: 6. Aut (C. V. Gates)

**HART 306** Hellenistic and Roman Sculpture  
A survey of Hellenistic and Roman sculpture from 300 BC to the Constantinian period (ca. 300 AD). The major artistic achievements of the Romans - portraiture, historical narratives and the stylistic changes from the idealized to the realistic. Credit units: 3 ECTS Credit Units: 6.

**HART 308** Greek Vase Painting  
A survey of Greek vase painting from the Geometric period (ca. 9th century BC) to the 4th century BC with special attention to Attic vase painting of the Archaic and Classical periods. Credit units: 3 ECTS Credit Units: 6. Spr (D. S. Tezgör-Kassab)

**HART 310** Archaeological Surveying and Planning  
A practical course offering an introduction to surveying procedures in the recording of sites and field surveys. Chain surveying, gridding, contouring and leveling are all covered by this course as they are basic to the accurate recording of all kinds of archaeological evidence. Credit units: 3 ECTS Credit Units: 6. Aut (J. Bennett)

**HART 311** Archaeological Drawing and Planning in the Field  
This course offers the first principles and basic skills required for archaeological illustration: drawing artifacts, buildings and reconstructions, producing artwork for publication, and drawing in the field during survey work and excavation. Credit units: 3 ECTS Credit Units: 6. Aut (J. Bennett)

**HART 315** Greek Architecture  
A survey of Greek building from ca. 700 BC to the 1st century BC. The Greek architectural tradition and its historical development will be emphasized (the history and nature of Doric and Ionic orders and of "Aeolic" and Corinthian styles). Materials, techniques and procedures of construction will also be covered. Sanctuary architecture provides the core material of the course but military, funerary, and ceremonial monuments will also be considered. Credit units: 3 ECTS Credit Units: 6.

**HART 316** Roman Architecture  
A survey of Roman architecture, from the Etruscans to the Constantinian period (ca. 300 AD) throughout the Roman world, with an emphasis on the architecture of the Republic and the early Roman Empire. Credit units: 3 ECTS Credit Units: 6. Aut (J. Bennett)

**HART 317** Archaeology of Troy  
A broad-based investigation into the problem of the origin and development of the Homeric city of Troy. The written and archaeological sources and the extent and the limitations of the data will be emphasized. The class will discuss the relationships between epic, history and archaeological evidence. Credit units: 3 ECTS Credit Units: 6.

**HART 318** Archaeology of Syria and Palestine  
The archaeology of the Levant and its relationship with surrounding cultures from the beginning of urban civilization to ca. 1200 BC. Credit units: 3 ECTS Credit Units: 6. Spr (M. Gates)

**HART 325** Hittite Archaeology  
Topics include the origin, the rise and the development of the Hittite state and civilization. Topography, settlement, history, urban growth, organization and civic administration, public religion, commercial and political activities and art will be considered. Credit units: 3 ECTS Credit Units: 6. Aut (F. I. Özgen)

**HART 327** Bronze Age in Anatolia  
The archaeology of Anatolia between 3000 and 1200 BC and its relationship with surrounding cultures - the Aegean, the Levant and the Near East, and Egypt. The data examined are primarily archaeological, but textual evidence will also be considered. Emphasis on questions of "style" and "regionality" in the analysis of art works serving as evidence for interaction in the late Bronze Age in the eastern Mediterranean. Credit units: 3 ECTS Credit Units: 6.

**HART 330** Egyptian Art and Archaeology  
A survey of the art and archaeology of ancient Egypt, from the Predynastic Period to the end of the New Kingdom (4000-1100 BC). The course will emphasize major monuments of architecture, sculpture, relief and painting. Questions of stylistic change and historical context will be considered, as well as cultural relations with neighboring civilizations. Credit units: 3 ECTS Credit Units: 6.

**HART 333** Ancient Greek III  
Selections from Greek literature (such as Homer, Hesiod, Xenophon Aeschylus, Sophocles, Euripides, Plato, Herodotus and Thucydides). Credit units: 3 ECTS Credit Units: 6. Prerequisite: HART 231 and HART 232. Aut (J. Morin)
HART 334  Ancient Greek IV
Selections from Greek literature (such as Homer, Hesiod, Xenophon, Aeschylus, Sophocles, Euripides, Plato, Herodotus and Thucydides). Also, an introduction to Epigraphy. Credit units: 3 ECTS Credit Units: 6, Prerequisite: HART 333. Spr (J. Morin)

HART 335  Monuments of Babylon
Babylon, named The Gate of the Gods, was by 600 BC the ancient world's largest city, and home to two of its "ancient wonders." Situated in today's southern Iraq, Babylon's urban plan, palaces, temples, museums, housing and lifestyle are known from the Greek historian Herodotus and other visitors, from the Old Testament, from Babylonian texts, and especially from a century of excavations at the site and its surroundings. This course will examine major aspects of this remarkable ancient city, with a focus on balancing the written and archaeological evidence. Credit units: 3 ECTS Credit Units: 6.

HART 338  Hittite Texts I
The course teaches students how to read the Hittite cuneiform script. Some elementary historical texts will be read to introduce students to this genre of cuneiform literature. Credit units: 3 ECTS Credit Units: 6.

HART 343  Latin III
Completion of the grammar points of the Latin language and an introduction to original texts. Also, an introduction to Epigraphy. Credit units: 3 ECTS Credit Units: 6, Prerequisite: HART 239 and HART 240. Aut (A. C. Abuagla)

HART 344  Latin IV
Readings and discussions of many of the works of Roman literature. Emphasis will be on correct translation of the Latin, with attention to genre and narrative technique, and to building facility in reading Latin. Selections from writers such as Plautus, Vergil, Cicero, Caesar, Lucretius, Petronius and Ovid will be read in the original. Credit units: 3 ECTS Credit Units: 6, Prerequisite: HART 343. Spr (A. C. Abuagla)

HART 351  Monuments of Athens
The monuments of Athens from the Archaic period through the Hellenistic and Roman periods, considering stylistic developments and historical and cultural context. Credit units: 3 ECTS Credit Units: 6.

HART 353  Introduction to Akkadian
Introduction to Akkadian for beginning students. No previous knowledge of a foreign language is needed. The course is particularly recommended to archaeology students whose interests lie in Bronze Age Mesopotamia and Anatolia. Credit units: 3 ECTS Credit Units: 6.

HART 360  Ancient Mesoamerican Civilizations
A survey of the civilizations of Mesoamerica from earliest human settlement to the Spanish conquest, with emphasis on the art and archaeology of the great states: Olmek, teotihuacan, Maya, Toltec, and Aztec. Credit units: 3 ECTS Credit Units: 6. Aut (C. V. Gates)

HART 370  Iron Age Sculpture of the Near East
Attention is focused on the major sculptural groups of the Anatolians, Assyrians, Neo-Babylonians and Persians. Credit units: 3 ECTS Credit Units: 6.

HART 380  Archaeology of Phoenicia
Detailed survey of Phoenician art and archaeology in its historical and economic context. There will be particular emphasis on the influences and relationships, especially in the fields of trade and art, between the Phoenicians and the rest of the Mediterranean and Near Eastern World. Credit units: 3 ECTS Credit Units: 4.

HART 400  Senior Project
A project on a specific topic in an area of archaeology, the history of ancient art, museum studies or ancient history to be carried out by the student or a group of students under the supervision of the project coordinator. The form of the project is free, and may consist of any of the following: a series of posters (on an archaeological site or theme), an illustrated guide to the archaeology of a specific place (or museum), a web blog on current issues in archaeology or history of ancient art, a film (video) on a specific site or theme, a reconstruction (model or virtual) of an ancient building, or any subject approved by the project coordinator. Credit units: 3 ECTS Credit Units: 6.

HART 403  Greek Sanctuaries
This course examines the religious, political and social uses of one of the most important institutions of the Greek world, together with the architecture, sculpture, pottery and offerings found in sanctuaries. Credit units: 3 ECTS Credit Units: 6.

HART 409  Museum Practices and the Preservation of Cultural Heritage
Study of various aspects of museum work. Management principles, cataloging and care of art objects, exhibitions and acquisitions, administrative procedures, and museum architecture will be emphasized. Specialist lecturers and visits to museums and their facilities. Credit units: 3 ECTS Credit Units: 6. Aut (D. S. Tezgör-Kassab)

HART 414  The Archaeology of Vernacular Architecture
This course surveys the ancient and contemporary construction of traditional buildings like farm complexes and village houses in Anatolia and the Middle East. The application of different building materials and techniques is...
discussed in context with modern archaeological fieldwork, in terms of what archaeologists might find or trace of such constructions after their deterioration. **Credit units: 3 ECTS Credit Units: 6.**

**HART 420** Readings in Prehistory  
Senior seminar on current debates in prehistory, with topic to be set by the instructor. **Credit units: 3 ECTS Credit Units: 6.**

**HART 423** Cities, Monuments and Landscapes of Classical Anatolia  
Scattered throughout the modern Republic of Turkey, ancient Anatolia, are the very visible remains of some 100 and more sites and monuments that help illuminate the history and in particular the architectural developments of the Classical period in this region. This course will examine several of these sites and their hinterlands to explain what we can learn from the archaeological remains about changing social and economic systems in the Classical period, roughly 600 BC - AD 300. The course takes a chronological approach to the subject, so that developments in contemporary social and economic systems can be explored and explained at the individual sites. As such, a particular emphasis is placed on how the architectural remains at such sites help us understand their varying degrees of prosperity in the Classical period. However, although the course will naturally focus mainly on such well-known places as Priene, Pergamum and Ephesus, it will also examine what can be learnt from the remains at several less-well known sites, like Patara, Oinoanda, and Ankara. **Credit units: 3 ECTS Credit Units: 6. Aut (J. Morin)**

**HART 424** Religion and Society in the Ancient Near East  
This course will examine formal and private religion practiced by the ancient civilizations of Mesopotamia, the eastern Mediterranean, Anatolia and Egypt. Topics to be covered include religious settings (temples, shrines and outdoor cult places), iconography referring to deities and cults, and ancient texts that explain cult practices and religious beliefs. Lectures, class discussions and student presentations. **Credit units: 3 ECTS Credit Units: 6.**

**HART 426** Ancient Technologies and Materials  
This course aims to provide students with a general understanding of the natural sciences (mainly chemistry and physics) contribution to enhance traditional archaeological methodologies. Issues like 14C-dating and Dendrochronology will be in focus as well as Sediment Analysis, X-Ray, lead Isotope- and Spectral Analysis, Laser-Raman-Spectroscopy and FTIR-Spectroscopy. The second part of this course is then devoted to ancient technological innovations and advances in engineering, and their contribution contemporary materials science. **Credit units: 3 ECTS Credit Units: 6. Spr (T. Zimmermann)**

**HART 431** The Archaeology of Cyprus in the Bronze Age  
This course will introduce the richly textured cultures of Cyprus during the Bronze Age (ca. 3500-1100 BC), when the island's resources and advantageous location encouraged interaction with neighbors from the Mediterranean, the Aegean and beyond. Aspects of Cypriot archaeological culture, social organization, technology, and maritime economy will be examined in class lectures, discussions and student presentations. **Credit units: 3 ECTS Credit Units: 6.**

**HART 434** Landscape Archaeology  
This course examines the relationship between geomorphology and ancient settlement, with emphasis on the development of coastal landforms, changes in sea levels, the evolution of karstic landforms and fluvial geomorphology. **Credit units: 3 ECTS Credit Units: 6. Aut (J. Morin)**

**HART 436** Archaeological Method and Theory  
Readings and a series of discussions focusing on research problems designed to give the student an understanding of the different approaches to the historical study of works of art and archaeology. **Credit units: 3 ECTS Credit Units: 6. Spr (M. Gates)**

**HART 439** Neolithic and Chalcolithic Periods in Anatolia  
An examination of the aceramic Neolithic cultures of Southeast Anatolia and the ceramic Neolithic cultures of the South and Southwest Anatolian plateau and their Chalcolithic successors. **Credit units: 3 ECTS Credit Units: 6. Spr (T. Zimmermann)**

**HART 440** Readings in Anatolian Art and Archaeology  
This course will investigate the most recent issues and scholarship on a topic in the field of Anatolian art and archaeology. Subject to be announced in the schedule of classes. **Credit units: 3 ECTS Credit Units: 6.**

**HART 450** Readings in Greek Art and Archaeology  
This course will investigate the most recent issues and scholarship on a topic in the field of Greek art and archaeology. Subject to be announced in the schedule of classes. **Credit units: 3 ECTS Credit Units: None. Spr (D. S. Tezgör-Kassab)**

**HART 453** Palaeolithic Archaeology in Eurasia and the Near East  
The science of our ancestors’ most ancient cultural period (ca. 2.600,000 - 10,000 BCE) is tremendously dynamic branch of archeology, with an ever-growing body of new, sensational insights into the dawn of man, its dispersal, biological and socio cultural evolution. This seminar is designed to make students familiar with prominent finds
and features of the Eurasian and Near Eastern Palaeolithic. Topics include lithic and bone working technologies, artwork, and the archaeology of caves and open air shelters. Special attention will be equally paid to the contribution of neighbouring sciences (Geology, Geochemistry, Palaeozoology and -anthropology, Genetics) to reconstruct a more comprehensive picture of our earliest past. Credit units: 3 ECTS Credit Units: 6.

HART 454 Introduction to Sumerology
The course is an introduction to the study of Sumerian language, documents, history and culture. A history of the discovery of the Sumerian civilization is followed by an overview of Sumerian history and the main features of Sumerian society. The course familiarizes students with the corpus of Sumerian texts in the fields of literature, mythology, religion, economy and political history. The significance of Sumerology for other fields of study, especially Assyriology and Hititology, is explained. The question of Sumerian origins is explored alongside an assessment of the role of the Sumerians in the history of civilizations. Credit units: 3 ECTS Credit Units: 6.

HART 470 Readings in Byzantine Art and Archaeology
This course will investigate the most recent issues and scholarship on a topic in the field of Byzantine art and archaeology. Subject to be announced in the schedule of classes. Credit units: 3 ECTS Credit Units: None.

HART 474 Neo-Assyrian Art and Archaeology
The Neo-Assyrian Empire (10th-7th century BC) represents a high moment in the long history of Ancient Near Eastern civilizations. This course covers notable aspects of its architecture, arts and settlement systems as preserved in the archaeological record. Credit units: 3 ECTS Credit Units: 6. Spr (F. I. Ozgen)

HART 490 Supervised Study
Independent research under the supervision of a faculty member whose special competence coincides with the area of a student’s interest. Consent of the supervising faculty member and of the major advisor is required. Credit units: 3 ECTS Credit Units: 6.

HART 491 Readings From Near Eastern Texts
This course will focus on the translation of Near Eastern texts. Knowledge of Akkadian will be a prerequisite. Credit units: 3 ECTS Credit Units: 6.

GRADUATE COURSES

HART 501 Issues in Archaeological Theory
This course will examine contemporary debates in archaeological methodology, analysis and interpretation. Emphasis will be placed on the techniques for applying theoretical models to fieldwork and analytical research. Credit units: 3 ECTS Credit Units: 6. Spr (J. Morin)

HART 504 Interpretation of Art Historical Materials
A historical survey of different approaches to the analysis of art and architecture. Credit units: 3 ECTS Credit Units: 6.

HART 507 Pre-Classical Art and Archaeology
These classes will be conducted with readings and discussion on key issues of Anatolian art and archaeology from the Prehistoric period to the Iron Age. Credit units: 3 ECTS Credit Units: 6. Aut (T. Zimmermann)

HART 508 Issues in Pre-Classical Art and Archaeology
These classes will be conducted with readings and discussion on key issues of Anatolian art and archaeology from the Prehistoric period to the Iron Age. Credit units: 3 ECTS Credit Units: 6. Spr (M. Gates)

HART 509 Classical Art and Archaeology
Classes conducted with readings and discussion on key issues of Anatolian art and archaeology from the Greek, Hellenistic and Roman periods. Credit units: 3 ECTS Credit Units: 6. Aut (D. S. Tezgör-Kassab)

HART 510 Issues in Classical Art and Archaeology
Classes conducted with readings and discussion on key issues of Anatolian art and archaeology from the Greek, Hellenistic and Roman periods. Credit units: 3 ECTS Credit Units: 6. Spr (C. V. Gates)

HART 515 Readings in Near Eastern Archaeology
Graduate tutorial in Near Eastern Archaeology, on a topic to be chosen by the instructor. Credit units: 3 ECTS Credit Units: 6. Spr (C. V. Gates)

HART 516 Supervised Research in Near Eastern Archaeology
Independent study, on a topic relevant to the student’s specialized research field in Near Eastern archaeology. Credit units: 3 ECTS Credit Units: 6.

HART 518 Supervised Research in Anatolian Archaeology
Independent study, on a topic relevant to the student’s specialized research field in Anatolian archaeology. Credit units: 3 ECTS Credit Units: 6.
HART 519  Research Directions for Anatolian Archaeology and Art
A team-taught proseminar to introduce research perspectives and sources, with one topic per week, on periods
(Neolithic, Ancient Near East and Egypt, Iron Age Near East, Bronze Age Europe/Mediterranean, Greece, Rome,
Byzantium, Islamic world) and themes (Science in Archeology, Ancient Languages and Epigraphy, Ethnoarche-
ology, Ceramics and Artifactual Analyses). Credit units: 3 ECTS Credit Units: 6. Aut (M. Gates)

HART 551  Ancient Greek I
Introduction to ancient Greek for graduate students. The course will emphasize both grammar and reading.
Credit units: 3 ECTS Credit Units: 6.

HART 552  Ancient Greek II
Completion of the grammar and vocabulary acquisition started in Ancient Greek I. Credit units: 3 ECTS Credit
Units: 6, Prerequisite: HART 551.

HART 553  Ancient Greek III
Selections from Greek literature, and an introduction to epigraphy. Credit units: 3 ECTS Credit Units: 6. Aut (J.
Morin)

HART 563  Latin I
Introduction to Latin for graduate students. Basic points of grammar will be covered and reading skills developed.
Credit units: 3 ECTS Credit Units: 6. Aut (A. C. Abuagla)

HART 564  Latin II
Continuation of the grammar and development of reading skills introduced in Latin I. Credit units: 3 ECTS Credit
Units: 6, Prerequisite: HART 563. Spr (A. C. Abuagla)

HART 583  Latin III
Selections from Latin literature and an introduction to epigraphy. Credit units: 3 ECTS Credit Units: 6, Prerequi-
site: HART 564.

HART 590  Seminar
Credit units: None ECTS Credit Units: None.

HART 599  Master’s Thesis
Credit units: None ECTS Credit Units: 24. Aut (C. V. Gates) Spr (Staff)
The Masters in Conference Interpreting Program is composed of two academic semesters and a summer school program. The objective of the degree program in Conference Interpreting is to train conference interpreters in Turkish/English/French. The language combinations offered in the program are A-CC, A-BC, A-BB or A-A.

The curriculum aims to develop the special skills needed for interpreting and to achieve mastery of the contemporary interpreting techniques. In addition, professional interpreters require a wide range of applied courses and a broad background in contemporary practices and theories. Professional interpreting studies in Turkish, English and French include: mastery in sight translation, consecutive interpreting, simultaneous interpreting, media interpreting. Theoretical and lecture courses deal with fields such as European/international organizations, technologies for interpreters, computer literacy and contemporary interpreting theories. Students who are trained by professional conference interpreters have to complete a single final examination given at the end of the Interpreting Seminar course in the summer school period. Students are expected to display their interpreting skills to a jury composed of professional interpreters from Turkey and professional interpreters from abroad.

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<tr>
<td>CINT 509 Advanced Consecutive Interpretation I</td>
<td>6 / 8</td>
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<tr>
<td>CINT 510 Advanced Consecutive Interpretation II</td>
<td>6 / 8</td>
</tr>
<tr>
<td>CINT 513 Advanced Simultaneous Interpreting I</td>
<td>6 / 8</td>
</tr>
<tr>
<td>CINT 514 Advanced Simultaneous Interpreting II</td>
<td>6 / 8</td>
</tr>
<tr>
<td>CINT 516 Conference Interpreting</td>
<td>6 / 8</td>
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<tr>
<td>CINT 518 Cross Cultural Negotiations</td>
<td>- / -</td>
</tr>
<tr>
<td>CINT 520 Technology and Research for Interpreting</td>
<td>2 / 4</td>
</tr>
<tr>
<td>CINT 590 Interpreting Seminar</td>
<td>- / -</td>
</tr>
</tbody>
</table>

### COURSE DESCRIPTIONS

**CINT 501 Theory of Interpreting**
Students will be acquainted with the theoretical aspects of interpretation and will be familiarizing themselves with the research findings that have a bearing on interpretation like cognitive, psycholinguistic, neurolinguistic, sociolinguistic paradigms and communication and discourse studies. Credit units: 2 ECTS Credit Units: 4.

**CINT 503 Introduction to the Practice of Interpreting**
This course aims to familiarize students with some basic communication skills, conference preparation techniques, professional ethics, conference procedures, working practices and conditions. They will learn about how they may attain the necessary skills to become effective communicators, how to keep up to date with world affairs in the various areas in which they work, how to improve their intuition and flexibility and develop their diplomatic skills. Credit units: 4 ECTS Credit Units: 6.

**CINT 506 EU and International Institutions**
Students are familiarized with basic legal and economic notions and especially focus on understanding how EU institutions and international organizations operate to develop a know-how of institutional processes and procedures. They become familiar with specific terminology, registers, styles and discourses used in communication in the relevant settings. Credit units: 4 ECTS Credit Units: 6.

**CINT 509 Advanced Consecutive Interpretation I**
In this first course on consecutive interpretation preliminary exercises in content analysis, memory exercises, summarization, sight translation and note-taking techniques will be studied. Students are prepared to be able to...
deliver fluent and effective consecutive interpretations of speeches into the mother tongue. Students are trained with authentic conference materials in which they will confront a diversity of subject areas, styles and registers. The length, information density and degree of technicality and specificity of the speeches will increase throughout the course. Credit units: 6 ECTS Credit Units: 8.

CINT 510 Advanced Consecutive Interpretation II
Through a variety of advanced level exercises and speeches in which the information density, degree of technicality and specificity increases as the course progresses, students are trained to deliver fluent and effective consecutive interpretations into the target language, accurately reproducing the content of the original, using appropriate terminology and register. Credit units: 6 ECTS Credit Units: 8.

CINT 513 Advanced Simultaneous Interpreting I
Students will be building on skills such as effective communication, content analysis, fluency of speech, and memory exercises. Students will be acquainted with booth techniques and team interaction while acquiring the professional skill to interpret into the mother tongue from both active and passive foreign languages in actual conference settings and/or simulations in the booths. This is undertaken in order to enable them to reproduce the content of the original, using the appropriate terminology and register. The length, information density and degree of technicality and specificity of the speeches will increase throughout the course. Once they have mastered simultaneous interpreting skills, students will also be taught to interpret with the texts in front of them. Credit units: 6 ECTS Credit Units: 8.

CINT 514 Advanced Simultaneous Interpreting II
Students will be trained to provide fluent and effective simultaneous interpretation of speeches into the target language undertaking advanced practice of simultaneous interpreting in the working languages in booths. Students will be attending conferences on diverse topics and they will analyze and criticize actual interpreting performance vis-à-vis actual conference situations. Through laboratory simulations and other opportunities they will be acquainted with the interpretation of diverse topics while undertaking research in relevant settings and terminology. Credit units: 6 ECTS Credit Units: 8.

CINT 516 Conference Interpreting
Students will be trained in the main types of work for conference interpreters. They will be acquainted with the types of interpreting necessary for committees and conferences, discussions between Heads of State, Prime Ministers, Ministers, business meetings, trade negotiations, court cases, working lunches, and field trips, working on the ability to rapidly shift between mother tongue and the active language, and from the passive language to the mother tongue. Credit units: 6 ECTS Credit Units: 8.

CINT 518 Cross Cultural Negotiations
Students will be exposed to cross-cultural negotiations in various domains/situations. They will be developing argumentation skills and the ability to deal with conflict issues through the use of different techniques. They will be asked to perform as speakers in mock debates, seminars, information sessions in their active languages; and they will have the opportunity to develop their attentive listening, comprehension and short-long term memory skills, especially through information dense speeches dealing with conflict issues in their passive languages. Students will work towards developing a sensitivity for such issues in performing as an intermediary/interpreter in differing cultures. Credit units: None ECTS Credit Units: None.

CINT 520 Technology and Research for Interpreting
This course aims to allow the student to familiarize with the technologies used in the interpretation milieu. They will be asked to research new virtual meeting technologies, use of multilingual communication in the media, multilingual chats, on-line communication on the Internet and new practices that may have a relevance for their fields. Students will be acquainted with up-to-date research techniques such as the use of terminology management systems in line with recent developments. They will also be made aware of interpreting practices for TV and radio interviews, and videoconferences. Credit units: 2 ECTS Credit Units: 4.

CINT 590 Interpreting Seminar
This course aims to allow students to practice the skills they attained throughout the two semesters in actual conferences and simulated conferences with the help of an advisor. The course has a single final examination that will reflect practical, real-life conference situations and will be graded as either satisfactory or unsatisfactory. A team of professional interpreters, native speakers of the students A, B, C languages and other professionals deemed necessary will be able to follow the final examination and consult with the advisor about the status (satisfactory/unsatisfactory) of the student. Credit units: None ECTS Credit Units: None.
DEPARTMENT OF ENGLISH LANGUAGE AND LITERATURE
T. S. Halman (Chair), A. Çelikkol, P. Hart, V. J. Kennedy, G. Kurtuluş, D. B. Randall, S. Taşkin.

Part-time: L. Tepedelen.

UNDERGRADUATE PROGRAM

Through a study of major authors, literary works and movements, the undergraduate program in English Literature and Language helps students to achieve a mature understanding of themselves and the world, and to learn to read critically and analytically, write clearly and persuasively, reason soundly and express themselves intelligently in English. In addition to giving a solid foundation in English Literature and Culture, the curriculum emphasizes critical thinking, communication skills and intellectual growth.

The department curriculum comprises the analysis, study, and discussion of various types of literature, origins and characteristics of myth; classical, biblical, Norse and Celtic mythology; literary terms and movements; periods of English literature from Old and Middle English literature through Renaissance, 17th C., 18th C., the Romantic Period, the Victorian age, to the present; English history; British society and culture; American literature; world literature, and theory and practice of criticism. The courses which emphasize class practice, exercise and drills are composition, translation, reading and oral interpretation, and research techniques.

Apart from department courses, students will be able to take elective courses from a wide variety of subjects offered by the other departments of the University, notably in foreign languages, social sciences, computer programming, and fine arts. This wider distribution of courses will provide the students with opportunities to broaden their culture, contribute to a desirable balance of intellectual interests, and prepare them for more specialized studies in the future.

UNDERGRADUATE CURRICULUM

FIRST YEAR

Autumn Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits / ECTS Credits</th>
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<tbody>
<tr>
<td>ELIT 109</td>
<td>Translation I (English-Turkish)</td>
<td>3 / 6</td>
</tr>
<tr>
<td>ELIT 115</td>
<td>Oral Expression Discussion and Presentation</td>
<td>3 / 4</td>
</tr>
<tr>
<td>ELIT 139</td>
<td>Appreciation of Literature</td>
<td>3 / 6</td>
</tr>
<tr>
<td>ELIT 141</td>
<td>British History</td>
<td>3 / 5</td>
</tr>
<tr>
<td>ENG 101</td>
<td>English and Composition I</td>
<td>3 / 6</td>
</tr>
<tr>
<td>ENG 117</td>
<td>Advanced English Grammar I</td>
<td>3 / 4</td>
</tr>
<tr>
<td>GE 100</td>
<td>Orientation</td>
<td>1 / 1</td>
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<td>TURK 101</td>
<td>Turkish I</td>
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Spring Semester

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<tr>
<td>CTE 191</td>
<td>Information and Communication Technology</td>
<td>3 / 6</td>
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<tr>
<td>ELIT 112</td>
<td>Translation II (Turkish-English)</td>
<td>3 / 4</td>
</tr>
<tr>
<td>ELIT 114</td>
<td>Critical Reading</td>
<td>3 / 6</td>
</tr>
<tr>
<td>ELIT 130</td>
<td>Selections from English Literature (to the Restoration)</td>
<td>3 / 5</td>
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<tr>
<td>ENG 102</td>
<td>English and Composition II</td>
<td>3 / 6</td>
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<tr>
<td>ENG 118</td>
<td>Advanced English Grammar II</td>
<td>3 / 4</td>
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<tr>
<td>TURK 102</td>
<td>Turkish II</td>
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SECOND YEAR

Autumn Semester

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<tr>
<td>ELIT 209</td>
<td>Topics in Literary and Cultural Studies</td>
<td>3 / 6</td>
</tr>
<tr>
<td>ELIT 217</td>
<td>Research and Writing Techniques for Literary Essays</td>
<td>3 / 6</td>
</tr>
<tr>
<td>ELIT 225</td>
<td>British Society and Culture</td>
<td>3 / 6</td>
</tr>
<tr>
<td>ELIT 265</td>
<td>Introduction to the Novel</td>
<td>3 / 6</td>
</tr>
<tr>
<td>ELIT 281</td>
<td>The Short Story</td>
<td>3 / 6</td>
</tr>
</tbody>
</table>
The Minor Program in English Language and Literature aims at providing a wide range of courses which deal with various topics in English literature, history and culture. In-depth analysis and discussion of literary genres, terms and movements form the basis of the program. Current trends in literature can be studied, but courses also cover mythology, as various periods in English Literature, from Middle English literature to the Renaissance, the seventeenth century, the Neoclassical Age, the Victorian and Romantic periods and the present. Since our courses emphasize writing and speaking skills, students will gain fluency in English as well as good understanding of the texts within their historical and social contexts. One of the ultimate aims of the program is to consider the place of British culture and literature in relation to the formation of world literatures.

Prerequisite Courses:
A minimum grade of B- in ENG 102
CURRICULUM

Courses

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<thead>
<tr>
<th>Courses</th>
<th>Credits / ECTS Credits</th>
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<tr>
<td>ELIT 242 Introduction to Drama</td>
<td>3 / 6</td>
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<tr>
<td>ELIT 265 Introduction to the Novel</td>
<td>3 / 6</td>
</tr>
<tr>
<td>ELIT 270 Poetry</td>
<td>3 / 6</td>
</tr>
<tr>
<td>ELIT 281 The Short Story</td>
<td>3 / 6</td>
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<tr>
<td>ELIT Course Electives (2)</td>
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</table>

COURSE DESCRIPTIONS

UNDERGRADUATE COURSES

ELIT 109 Translation I (English-Turkish)
Aims to use English passages for translation to help students improve their reading comprehension, enlarge their vocabulary, and deepen their awareness and understanding of different usage and structures. Credit units: 3 ECTS Credit Units: 6. Aut (S. Akbaş, S. Taşkın)

ELIT 112 Translation II (Turkish-English)
Sequel to ELIT 109. Designed to help students practice their written English through translation of various texts in Turkish allowing them to use different grammatical structures. Credit units: 3 ECTS Credit Units: 4. Spr (S. Akbaş, G. Kurtuluş)

ELIT 114 Critical Reading
The first year course will offer a means of bringing together and further developing the student’s reading and comprehension skills. The main aim of the course will be to create and develop students’ awareness of centrality of careful critical reading to the study of literature. The course will involve the teaching and development of critical interpretative and reading skills using a variety of short texts and will introduce the students, at a basic level, to the range of critical approaches to the study of literature that are available. Credit units: 3 ECTS Credit Units: 6. Spr (Staff)

ELIT 115 Oral Expression Discussion and Presentation
This course aims to help students improve their speaking skills in an intellectual context. Through extensive drills and practice, students will be familiarized with ways and methods of oral expression, meaningful, persuasive and coherent speech, and discussion and presentation. Course material will include topics and relatively short or excerpted texts in a wide spectrum of areas such as humanities, social sciences, history, philosophy, psychology, science and technology, the arts, music, and media. Credit units: 3 ECTS Credit Units: 4. Aut (D. B. Randall)

ELIT 130 Selections from English Literature (to the Restoration)
Designed to familiarize students with the major works and authors of English literature from its beginnings to the Restoration. The works to be introduced may include Beowulf; Canterbury Tales; Sir Gawain and the Green Knight; Piers Plowman; Medieval lyrics, ballads, and plays; Morte Darthur; Utopia; 16th century sonnets, and lyrics; The Faerie Queene; Dr. Faustus; Metaphysical and Cavalier Poetry; Paradise Lost essays by Bacon; Leviathan. Credit units: 3 ECTS Credit Units: 5. Aut (P. Hart)

ELIT 139 Appreciation of Literature
An introduction to the study and appreciation of three major literary genres: drama, fiction and poetry. Credit units: 3 ECTS Credit Units: 6. Aut (G. Kurtuluş)

ELIT 141 British History
This course aims to cover British history from the times of Beowulf to the present, with particular emphasis on the modern era. The focus will be on the social, economic, and political dimensions of the various historical periods covered. Credit units: 3 ECTS Credit Units: 5. Aut (P. Hart)

ELIT 209 Topics in Literary and Cultural Studies
This course offers students the opportunity to study one topic in an in-depth manner. The instructor may organize the course around a specific theme (monsters, falling in love, London), genre (the Gothic, young adult fiction, journalism), critical paradigm (globalization, print culture, performance), or particular aspect of British culture (contemporary film, J. K. Rowling, the Beatles). Through sustained focus on a single topic, students will improve their ability to draw links among diverse literary texts and establish critical connections. Credit units: 3 ECTS Credit Units: 6. Aut (S. Taşkın)

ELIT 217 Research and Writing Techniques for Literary Essays
The course aims at teaching English Literature students the necessary steps of research and writing literary essays on the subjects chosen from English Literature. The process involves such stages of selecting a topic,
using library facilities, compiling a working bibliography, taking notes, avoiding plagiarism, preparing an outline and writing a well-organized, adequately supported and accurately documented research essays. At the end of the course the students are expected to develop a notion of academic writing using the necessary tools and become familiar with the steps of writing literary essays. Credit units: 3 ECTS Credit Units: 6, Prerequisite: ENG 101 and ENG 102. Aut (R. P. Stephan)

**ELIT 222** Introduction to Theory and Criticism
The course will analyze texts from at least three major theoretical movements of relevance to contemporary critical practice, including Marxism, psychoanalytical criticism, structuralism, post-structuralism, and theories of gender, sexuality, and culture. These theoretical texts will be studied in conjunction with selected primary texts in order to enable students to see how theory works in practice. Credit units: 3 ECTS Credit Units: 6. Spr (Staff)

**ELIT 224** World Mythology
An introduction to the origins and characteristics of myth and the study of mythic motives and themes found in world mythology with emphasis on classical myths. Credit units: 3 ECTS Credit Units: 6.

**ELIT 225** British Society and Culture
This course offers an introduction to life and society in Britain from the Middle Ages to the 19th century. It also aims to enhance students' interest on society and culture in Britain in the 21st century with emphasis on the connection, relationship and difference between national culture and cultural identities and how these identities have been shaped and reshaped as multiculturalism has come into scene. Credit units: 3 ECTS Credit Units: 6. Aut (R. Hart)

**ELIT 242** Introduction to Drama
An introduction to the study of drama based on a selection of works including Greek tragedy and modern classics. Credit units: 3 ECTS Credit Units: 6, Prerequisite: ELIT 139. Spr (G. Kurtulus)

**ELIT 262** The English Novel (19th Century)
A study of the major English novelists of the 19th century. Credit units: 3 ECTS Credit Units: 6, Prerequisite: ELIT 265. Spr (D. B. Randall)

**ELIT 265** Introduction to the Novel
This course introduces students to the study of the novel in English, placing emphasis on formal qualities such as language, structure, plot, character, theme, and setting. The course offers a bridge between earlier courses introducing students to more broad, and later courses, in which the novel is studied in period and thematic more broadly, and later courses, in which the novel is studied in period and thematic contexts. Texts for study may be taken from any period or sub-genre of the novel. Credit units: 3 ECTS Credit Units: 6, Prerequisite: ELIT 139. Aut (V. J. Kennedy)

**ELIT 270** Poetry
An introduction to poetry through selected examples written in English. Credit units: 3 ECTS Credit Units: 6, Prerequisite: ELIT 139. Spr (V. J. Kennedy)

**ELIT 281** The Short Story
An introduction to the short story through selected examples from British, American, and world writing. Credit units: 3 ECTS Credit Units: 6, Prerequisite: ELIT 139. Aut (G. Kurtulus)

**ELIT 290** Summer Training
The minimum time for this practice in an organization is four weeks (20 workdays). The main objective is to observe and experience an academic and/or non-academic organization in a workplace. Literature students are skillful in interpretation, creative thinking and problem solving; they can be efficient in the industry environment. Organizations may be one of the following: hotels and caterings, language schools, law companies, libraries, marketing and advertisement companies, newspapers, magazines, publishing houses, broadcasting companies, kindergartens, museums, translation agencies, real estate agencies, insurance companies, broker firms, etc. Credit units: None ECTS Credit Units: None Aut (G. Kurtulus)

**ELIT 351** Shakespeare I (Comedies, Romances, Problem Plays)
This course aims to develop students' skills in textual analysis and criticism of Shakespeare's romantic comedies, romances, and problem plays. Credit units: 3 ECTS Credit Units: 7, Prerequisite: ELIT 114 and ELIT 130 and ELIT 139 and ELIT 141. Aut (D. B. Randall)

**ELIT 352** Shakespeare II (Tragedies, Roman Plays, Histories)
A study of Shakespeare's tragedies, Roman plays, and histories. Credit units: 3 ECTS Credit Units: 7, Prerequisite: ELIT 114 and ELIT 130 and ELIT 139 and ELIT 141. Spr (G. Kurtulus)

**ELIT 355** Renaissance Literature
This course will introduce students to the major writers, genres and contexts of Renaissance literature. Topics studied may include Petrarchism and the sonnet sequence; other forms of lyric poetry, including the Renaissance epic; romance and pastoral, in poetry and prose; Renaissance Humanism; the Reformation; the impact of the discovery of new worlds and of the New Science on Renaissance writing; translation and the English Bible; travel
writing; manuscript and print; the school of Donne; the Scottish Renaissance; and Elizabethan and Jacobean drama. Credit units: 3 ECTS Credit Units: 6, Prerequisite: ELIT 114 and ELIT 130 and ELIT 139 and ELIT 141. Aut (P. Hart)

ELIT 356 Seventeenth and Eighteenth Century Literature
This course will give students a broad introduction to the literature and culture of the 'long eighteenth century,' covering a period from the English Revolution of the 1640s to the French Revolution of 1789. Topics covered may include the literature of the civil wars; Milton's Paradise Lost; Restoration drama; the flowering of satire; the literature of the Enlightenment; English landscape writing; Neoclassicism and its emphasis on reason, harmony, and wit; the birth of the modern novel; the literature of sentiment and sensibility; and the origins and development of the Gothic. Writers who may be studied in the course include Andrew Marvell, Aphra Behn, Margaret Cavendish, John Bunyan, Samuel Pepys, John Wilmot, Daniel Defoe, Jonathan Swift, Joseph Addison and Richard Steele, Alexander Pope, Lady Mary Wortley Montagu, Samuel Johnson, Laurence Sterne, Olaudah Equiano, and Thomas Paine. Credit units: 3 ECTS Credit Units: 6, Prerequisite: ELIT 114 and ELIT 130 and ELIT 139 and ELIT 141. Spr (Staff)

ELIT 361 Modern British Fiction I (to the 1950s)
A survey of developments in British fiction from the beginning of the 20th century to the 1950s. Major authors might include Conrad, Woolf, Joyce, D.H. Lawrence, E.M. Forster, Waugh and Orwell. Credit units: 3 ECTS Credit Units: 7, Prerequisite: ELIT 114 and ELIT 130 and ELIT 139 and ELIT 141. Aut (V. J. Kennedy)

ELIT 362 Modern British Fiction II (1950s to present)
A study of developments in British fiction in the second half of the 20th century, such as post-modernism, feminist issues, and the campus novel. Authors may include Golding, Fowles, Beckett, Durrell, Lessing, Murdoch, Drabble, Weldon, Roberts, K. Amis, Lodge, Bradbury, Barker, Winterson, etc. Credit units: 3 ECTS Credit Units: 6, Prerequisite: ELIT 114 and ELIT 130 and ELIT 139 and ELIT 141. Spr (V. J. Kennedy)

ELIT 423 Theory and Practice of Criticism
This course explores the theoretical basis of literary criticism. Introducing students to transformative moments such as the linguistic turn, it draws attention to larger intellectual contexts that gave rise to specific literary critical practices. The course also offers exercises to help students to recognize the philosophical and historical premises of their own practices of criticism. Authors may include Althusser, Saussure, Barthes, Foucault, Derrida, Lacan, Kristeva, and Spivak. Credit units: 3 ECTS Credit Units: 6, Prerequisite: ELIT 217 and ELIT 222 and ELIT 224 and ELIT 262 and ELIT 265. Aut (S. Taşkın)

ELIT 438 Selected Topics
The course will cover any genre, movement, writer or topic not included in the curriculum. The coverage of the course will be determined according to the needs of the students and to the recent developments in literary studies. Credit units: 3 ECTS Credit Units: 6, Prerequisite: ELIT 217 and ELIT 222 and ELIT 242 and ELIT 262 and ELIT 265. Spr (Staff)

ELIT 443 British Drama
This course aims to analyze plays from the eighteenth century to the present, with close attention to emergent themes, methods and movements in the drama. Selected plays may cover Restoration Comedy of Manners, nineteenth and twentieth century drama and the recent plays, which are mostly on the second and the third wave feminism, political and global concerns will be examined, as well as examples written by the representatives of 'new writing.' Dramatists may include Dryden, Congreve, Gay, Pinero, Sheridan, Goldsmith, Wilde, Priestley, Shaw, Eliot, Sygne, Tom Stoppard, Caryl Churchill, Timberlake Wertenbaker, Brian Friel, Edward Bond, David Hare, David Greig, John McGrath, Howard Brenton, Sarah Daniels, etc. Credit units: 3 ECTS Credit Units: 6, Prerequisite: ELIT 217 and ELIT 222 and ELIT 242 and ELIT 262 and ELIT 265. Aut (G. Kurtulus)

ELIT 457 Major Writers of the Victorian Period
The course will study some of the major writers and works in prose and poetry of the Victorian period, using thematic and/or chronological approaches. Themes might include: the Condition of England Question, The Woman Question, and Race and Empire. Authors may include Carlyle, Marx, Engels, John Ruskin, Charles Dickens, Mathew Arnold, Alfred Lord Tennyson, and Christina Rossetti, Patmore, Mill, Barrett Browning, Thomas Babington Macaulay, Charles Darwin, Mary Kingsley, and Rudyard Kipling. Credit units: 3 ECTS Credit Units: 6, Prerequisite: ELIT 217 and ELIT 222 and ELIT 242 and ELIT 262 and ELIT 265. Aut (V. J. Kennedy)

ELIT 463 Post-Colonial Literature
A study of recent fiction written in English by authors from the former British Empire. Works by such authors as Chinua Achebe, Buchi Emecheta, V.S. Naipaul, Salman Rushdie, Hanif Kureishi, Anita Desai and Ngugi wa Thiong'o may be discussed. Post-colonial theory may also be studied through selected texts by authors like Edward Said, Frantz Fanon, Homi Bhabha, and Gayatri Spivak. Credit units: 3 ECTS Credit Units: 6, Prerequisite: ELIT 217 and ELIT 222 and ELIT 242 and ELIT 262 and ELIT 265. Spr (D. B. Randall)
ELIT 471 Romantic Poetry
A study of selections from the major works of such poets as Wordsworth, Coleridge, Byron, Shelley and Keats. 
Credit units: 3 ECTS Credit Units: 6, Prerequisite: ELIT 217 and ELIT 222 and ELIT 224 and ELIT 262 and ELIT 265. Aut (S. Taşkıncı)

ELIT 474 Twentieth Century Poetry
This course will introduce students to some of the most significant poems, poets and poetic movements of the period, focusing on issues of language, style and form and connections between poetic practice and history, society and culture. Students will explore the impact of Modernism on poetry in the British Isles, focusing on poets such as Eliot and Yeats, before going on to examine some of the diverse responses and reactions to that legacy in the second half of the century, such as those of the Movement of the 1950s and of the British Poetry Revival of the 1980s. Credit units: 3 ECTS Credit Units: 6, Prerequisite: ELIT 217 and ELIT 222 and ELIT 242 and ELIT 262 and ELIT 265. Spr (P. Hart)

ELIT 490 Senior Project
ELIT 490 aims to follow the development of each student's ability to carry out an independent study. Under the supervision of a faculty member students are required to work in topics such as: a) Blog Building, b) Creative Writing, c) Translation, d) Shakespeare Studies, e) Theatre Performance, f) Establishing Annotated Bibliographies, g) Academic papers with presentations, etc. Credit units: 3 ECTS Credit Units: 6. Spr (P. Hart, V. J. Kennedy, G. Kurtuluş, D. B. Randall)
DEPARTMENT OF PHILOSOPHY


The Department of Philosophy offers a B.A. degree in philosophy. Plans for the M.A. and the Ph.D. degree programs are in progress.

The aim of the department is threefold: (i) by exploring influential philosophical arguments and ways of arguing, the department intends to impart upon the students the intellectual resources to discern lines of thought and courses of action that are defensible as opposed to ill-considered; (ii) the department aims to foster background capabilities—self-reliance, judging well when decision-making, creativity in problem-solving, adaptability, argumentative acumen and so forth—that complement and are essential to the good use of vocational skills; (iii) by investigating abstract problems and arguments in depth and by adopting an analytic stance the department aims to provide students with a solid platform from which to pursue graduate studies in philosophy.

The curriculum is broad based in that the students are required to complete courses in a number of academic fields other than philosophy, i.e., physics, biology, computers, mathematics, economics, languages, literature, arts and history. Because the curriculum provides each student with a substantive grounding in these fields, the student is able to constructively challenge the way they are practiced from a position of authority rather than from a position of hearsay. Besides, several of the courses (e.g., languages, statistics, computer programming, summer training) aim to develop specific skills that are essential to the workplace. In the meantime, the philosophy courses on their own provide a more than sufficient basis from which to pursue graduate work in philosophy. As a result, the critical mass of philosophical understanding is established whilst at the same time each student's future career options are not foreclosed due to unnecessary over-specialization at an early stage.

The department places a premium upon: (i) discussion-based class work, encouraging the students to be actively part of the learning experience; (ii) essay-based assessment (complemented by a drafting process and a series of essay tutorials); (iii) tutorials and ongoing feedback; (iv) trusting the students to come to terms with the original texts, rather than asking them to work from watered-down commentaries on those texts; (v) the development of each student's ability to pursue independent research (culminating in the fourth year where a thesis is completed on a chosen topic under the supervision of a faculty member).

The Philosophy Undergraduate Program, Minor Program, and Course Descriptions can be found at the following address: http://www.phil.bilkent.edu.tr

UNDERGRADUATE PROGRAM

CURRICULUM

FIRST YEAR

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<tr>
<th>Autumn Semester</th>
<th>Credits / ECTS Credits</th>
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<tr>
<td>CS 123</td>
<td>Introduction to Computing and Programming for Social Sciences 3 / 6</td>
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<td>ENG 101</td>
<td>English and Composition I 3 / 6</td>
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<td>GE 100</td>
<td>Orientation 1 / 1</td>
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<td>Introduction to Calculus I 4 / 7</td>
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<td>PHIL 101</td>
<td>Introduction to Logic 3 / 6</td>
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<td>TURK 101</td>
<td>Turkish I 2 / 1</td>
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### SECOND YEAR

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Students should take either PHYS 108 or MBG 110 in this semester in addition to the aforementioned courses (see ELECTIVES)

### THIRD YEAR

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<td>Ottoman Reform Movements II: Political and Social (1839-1914)</td>
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<td>Medieval Europe (500-1500)</td>
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<td>Modern Europe (1453-1914)</td>
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<td>History of the United States until the Reconstruction</td>
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<td>The Enlightenment and the French Revolution</td>
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<td>State and Society in the EU Member States</td>
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**LITERATURE ELECTIVES**

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<td>Film Theory and Criticism</td>
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<td>COMD 344</td>
<td>Visual Technologies and Visual Narratives</td>
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<td>COMD 354</td>
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<td>Science, Society and Technology</td>
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<td>World Politics II</td>
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<td>Public Opinion and Political Behavior in Democracies</td>
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<td>Body and Emotions in Social Life</td>
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<td>Liberalism and Socialism: Past and Present</td>
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<td>Life, Nature and Politics</td>
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<td>Film and Politics</td>
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</table>
Since its inception, the Department of Philosophy has hosted numerous distinguished analytic philosophers as short- or long-term visitors. The staff members, while pursuing diverse interests within the discipline, also subscribe to the analytic vision. The Minor Program in philosophy should arm a student who completes its course requirements with an indispensable background (and tricks of the trade) needed for advanced study. The courses in the Program study the original philosophical works in the foregoing areas mentioned by Nagel.

Prerequisite Courses: None

CURRICULUM

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<tr>
<th>Courses</th>
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<td>PHIL 201 Epistemology</td>
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ELECTIVE COURSES

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<td>PHIL 202 Ethics</td>
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<tr>
<td>PHIL 203 Rationalists</td>
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<td>PHIL 204 Empiricists</td>
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<tr>
<td>PHIL 301 Political Philosophy</td>
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<td>PHIL 302 Social and Legal Philosophy</td>
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<td>PHIL 303 Kant</td>
<td>3 / 6</td>
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<tr>
<td>PHIL 304 Philosophy of Science</td>
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<td>PHIL 306 Philosophy of Language</td>
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<td>PHIL 308 Philosophy of Mind</td>
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<tr>
<td>PHIL 401 Metaphysics</td>
<td>3 / 6</td>
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<tr>
<td>PHIL 402 Aesthetics</td>
<td>3 / 6</td>
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</table>

MBG 110 or PHYS 108 may be taken as elective, if not taken the second year.
DEPARTMENT OF PHILOSOPHY

COURSE DESCRIPTIONS

UNDERGRADUATE COURSES

PHIL 101 Introduction to Logic
A self-contained introduction to the basic notions of logic, including language, truth, argument, consequence, proof, and counter example. Both propositional logic and predicate logic are studied (their syntax plus semantics), with an emphasis on translating English sentences into logical symbols. A contemporary software package such as Tarski’s World may be used to construct derivations of valid arguments. Credit units: 3 ECTS Credit Units: 6. Aut (V. Akman)

PHIL 102 Ancient Philosophy
This course introduces the thought of ancient philosophers focusing on questions about the purpose of philosophy, the nature of knowledge, virtue and the good life. Credit units: 3 ECTS Credit Units: 6. Spr (M. Nakeeb)

PHIL 103 Introduction to Philosophy I
The course raises and examines central problems in theoretical philosophy such as: Is there a world of things that exists independently of human thought and sensation? How can we know the difference between appearance and reality? How does our mind and the physical world relate? How can we know whether there are other minds? Do we freely choose our actions or are they pre-determined? Those problems are investigated through a close reading of influential texts in the history of philosophy. Credit units: 3 ECTS Credit Units: 6. Aut (S. Berges)

PHIL 104 Introduction to Philosophy II
The course raises and examines central problems in practical philosophy such as: Is there a single true morality? To what extent is morality conventional? How can we know what is the right and wrong thing to do? Why should I do the right thing? What is it to live one’s life well? Those problems are investigated through a close reading of influential texts in the history of philosophy. Credit units: 3 ECTS Credit Units: 6. Spr (J. Woods III)

PHIL 201 Epistemology
This course addresses several of the central problems of contemporary epistemology, such as: conceptions of epistemic justification; skeptical arguments and responses to them; foundationalism and coherentism; externalism and internalism; causal theories of knowledge; rationality and cognitive relativism; naturalised epistemology. Credit units: 3 ECTS Credit Units: 6. Aut (K. H. Michaelian)

PHIL 202 Ethics
This course endeavors to appraise critically the moral sense, deontological, utilitarian and intuitionist accounts of morality. In so doing it asks: Do our value judgments merely reflect our subjective preferences or are they based on an objective reality? Is there a single ultimate value? Should we be guided by reason or passion, altruism or egoism? Should we determine a person’s worth based on the consequences of their actions or the motives for their actions? Does maximizing overall happiness respect the individual? Credit units: 3 ECTS Credit Units: 6. Spr (K. H. Michaelian)

PHIL 203 Rationalists
This course introduces the rationalist tradition in philosophy through the works of Descartes, Leibniz, and Spinoza. We will look at these philosophers’ responses to questions about substance, perception, thought, identity and causality. Credit units: 3 ECTS Credit Units: 6. Aut (L. R. Vinx)

PHIL 204 Empiricists
This course introduces the works of empiricist philosophers Locke, Berkeley, and Hume focusing on the nature of substance, perception, and thought, and philosophical problems about identity and causality. Credit units: 3 ECTS Credit Units: 6. Spr (Y. S. Berkovski)

PHIL 241 Social and Political Philosophy I
What is to live one’s life well? Is there a single true morality? How can we know what is the right and wrong thing to do? Why should I do the right thing? These problems and more are examined through a close reading of influential texts in the history of philosophy. The course is mutually supported by the co-requisite course ENG 241 Sophomore Academic English I. Credit units: 3 ECTS Credit Units: 6. Aut (K. H. Michaelian)

PHIL 242 Social and Political Philosophy II
Should we be guided by reason or passion, altruism or egoism? Is the idea of forcing someone to be free a contradiction? Should there be limits on what justice can demand in order to bring about the best consequences? These problems and more are examined through a close reading of influential texts in the history of philosophy. The course is mutually supported by the co-requisite course ENG 242 Sophomore Academic English II. Credit units: 3 ECTS Credit Units: 6. Prerequisite: PHIL 241. Spr (Staff)

PHIL 243 Social and Political Philosophy I
This course is based on classic texts in the history of philosophy, starting from the ancient Greek period through to the Renaissance. The course is equally divided into Philosophy and English Language parts. While both parts
of the course focus on the same set of texts, the emphasis and assessment criteria for each are different. The Philosophy part places more emphasis on evaluating the ideas and arguments expressed by each philosopher. Questions to be considered include: What does it mean to live one’s life well? Is there a single true morality? How can we know what is the right and the wrong thing to do? Why should I do the right thing? The English part will place more emphasis on developing the ability to read and interpret challenging texts, as well as the ability to communicate verbally and in writing. Thus, the English part uses the original texts to further develop the goals achieved during first year English courses (ENG 101/102). Credit units: 6 ECTS Credit Units: 12. Aut (F. T. Ankan, D. C. Bennette, S. Berges, Y. S. Berkovski, I. Board, D. C. Butcher, M. H. Demir, M. D. Elwell, A. Kadioglu, I. Kaya Yildirim, P. B. Lyons, K. H. Michaelian, R. H. M. Turner, S. D. Vigley, L. R. Vinx, J. Woods III, W. G. Wringe)

PHIL 244 Social and Political Philosophy II
This course is based on classic texts in the history of philosophy, starting from the early modern period through to the turn of the twentieth century. The course is equally divided into Philosophy and English Language parts. While both parts of the course focus on the same set of texts, the emphasis and assessment criteria for each are different. The Philosophy part places more emphasis on evaluating the ideas and arguments expressed by each philosopher. Questions to be considered include: Should our actions be guided by reason or passion, altruism or egoism? Is the idea of forcing someone to be free a contradiction? Should there be limits on what justice can demand in order to bring about the best consequences? The English part will place more emphasis on developing the ability to read and interpret challenging texts, as well as the ability to communicate verbally and in writing. Thus, the English part uses the original texts to further develop the goals achieved during first year English courses (ENG 101/102). Credit units: 6 ECTS Credit Units: 12. Spr (S. Berges, Y. S. Berkovski, M. H. Demir, K. H. Michaelian, S. D. Vigley, L. R. Vinx, J. Woods III, W. G. Wringe)

PHIL 299 Summer Training I
The minimum time for this practice in an organization is four weeks (20 workdays). The main objective is to observe a non-academic organization in an original setting. Since philosophy students have the ability to look for different approaches and take an open mind to issues, they must come handy in the workplace. Organizations can be any of the following: think-tanks, human rights organizations, NGOs, charities, marketing and advertisement companies, law firms, newspapers, magazines, broadcasting companies, publishing houses, etc. It is crucial to secure the approval of the department chair re the suitability of the intended summer training place. Students should do this before they make arrangements with the organization. A written report summarizing training experience is required. Credit units: None ECTS Credit Units: None. Prerequisite: PHIL 202. Aut (Staff)

PHIL 301 Political Philosophy
When, if at all, is coercion justified? When is it justified to disobey? In what sense should I be free in a political community? Is the idea of forcing someone to be free a contradiction? Those questions and more are examined through a close reading of influential philosophical texts. Credit units: 3 ECTS Credit Units: 6. Spr (S. D. Vigley)

PHIL 302 Social and Legal Philosophy
What should be the relationship between the individual and the state? Must we be embedded in the social world in order to be free? How can we justify rules of justice? Should there be limits on what justice can demand in order to bring about the best consequences? Those questions and more are examined through a close reading of influential philosophical texts. Credit units: 3 ECTS Credit Units: 6. Spr (L. R. Vinx)

PHIL 303 Kant
This course is based around a close and critical reading of Kant’s *Critique of Pure Reason*. We concentrate on assessing Kant’s response to the possibility that the world studied by science is in some sense mind-dependent and/or mind-constructed. More specifically, we consider his distinction between *a priori* and *a posteriori* knowledge and analytic and synthetic judgments, his argument for synthetic *a priori* truths, his transcendental deduction of the categories and his transcendental idealism. Credit units: 3 ECTS Credit Units: 6. Aut (W. G. Wringe)

PHIL 304 Philosophy of Science
It is often assumed that science is a paradigm of rational inquiry. In this course we look at a number of recent accounts of scientific rationality which try to give good grounds for this assumption. We also consider the closely related question of scientific realism: when do we have good grounds for thinking that the objects described in scientific theories really exist? Credit units: 3 ECTS Credit Units: 6. Aut (Y. S. Berkovski)

PHIL 305 Intermediate Logic
This course builds on PHIL 101 - Introduction to Logic, and focuses on the uses and limitations of formal techniques in the study of language and argument. Topics to be covered will include: Further study of propositional and predicate calculus, including discussion of completeness, soundness and decidability results; set-theoretic and semantic paradoxes; Introduction to modal and intuitionistic logic; logic and computability. Credit units: 3 ECTS Credit Units: 6. Aut (M. H. Demir)
PHIL 306 Philosophy of Language
We discuss key concepts such as: truth, meaning, reference, logical form, speech act and metaphor. In addition to critically assess various theories that aim to show what it is for a statement to be true. As preparation, the course commences with a brief recap of key aspects of logic. Credit units: 3 ECTS Credit Units: 6. Spr (W. G. Wingè)

PHIL 308 Philosophy of Mind
This course introduces students to key issues in contemporary philosophy of mind. We start by looking at dualist, materialist and functionalist responses to the mind/body problem, and consider a range of further issues about personal identity, consciousness and intentionality. A key guiding issue is, ‘To what extent, and in what ways can the human mind be compared to a computer?’ Credit units: 3 ECTS Credit Units: 6. Spr (M. H. Demir)

PHIL 399 Summer Training II
The minimum time for this practice in an organization is four weeks (20 workdays). The main objective is to observe a non-academic organization in an original setting. Since philosophy students have the ability to look for different approaches and take an open mind to issues, they must come handy in the workplace. Organizations can be any of the following: think-tanks, human rights organizations, NGOs, charities, marketing and advertisement companies, law firms, newspapers, magazines, broadcasting companies, publishing houses, etc. It is crucial to secure the approval of the department chair re the suitability of the intended summer training place. Students should do this before they make arrangements with the organization. A written report summarizing training experience is required. Credit units: None ECTS Credit Units: None, Prerequisite: PHIL 299.

PHIL 401 Metaphysics
Focusing on a selection of key texts, this course examines core topics in contemporary metaphysics, such as: truth, existence, universals and particulars, causality, modality, perception, knowledge, the a priori, identity, anomalous monism, supervenience, vagueness, and time. Credit units: 3 ECTS Credit Units: 6. Aut (J. Woods III)

PHIL 402 Aesthetics
This course examines key debates in the Philosophy of Art, such as the definition of art, the ontology of artworks, the nature and scope of the aesthetic, expression, representation, interpretation, appreciation, aesthetic value and the value of art, creativity, art and ethics. Credit units: 3 ECTS Credit Units: 6. Spr (S. Berges)

PHIL 521 History of Political and Educational Philosophy
The course introduces students to philosophical thinking about the relation between human nature, society and education. It focuses on the study of key texts in the history of philosophy and educational thought including Aristophanes, Plato, Descartes, Voltaire, Mill and Russell. There is strong emphasis on the development of students critical reasoning skills. Students are encouraged to think about the implications of the views discussed for their own pedagogical practice. Credit units: 3 ECTS Credit Units: 6. Aut (S. D. Vigley)
DEPARTMENT OF TRANSLATION AND INTERPRETATION


UNDERGRADUATE PROGRAM

The degree program in Translation and Interpretation trains translators and interpreters in Turkish, English and French. The curriculum aims to develop the special skills needed for translating and interpreting and to achieve mastery of the contemporary spoken and written languages. In addition, a wide range of elective courses provides a broad cultural background required by professional translators.

Language studies in English and French include: oral and written comprehension, oral and written translation, oral proficiency, essays, precis-writing and note-taking in addition to translation workshops. Elective courses deal with fields such as national government and administration, politics, economics, law, culture, current events, modern literature, European organizations and computer literacy. The third year includes a summer program which forms an integral part of the curriculum. For this program, after a period of one month spent in a firm/agency of the public or private sector, students submit a summer practice report to be presented orally both in English and French. In the fourth year, students may choose between two specialized track of study: Written translation or Interpretation. Candidates for the Interpretation track must pass a written and oral examination administered by the school exam committee. Students in both tracks will complete research projects.

CURRICULUM

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<td>TRIN 161 Introduction to Translation</td>
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<td>TRIN 134 Texts and Composition in French II</td>
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<td>TRIN 166 English-Turkish-French Translation</td>
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<td>TRIN 265 Translation of Economic Texts (English-Turkish-French)</td>
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### THIRD YEAR

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<td>Criticism and French Literature</td>
<td>3</td>
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<td>TRIN 332</td>
<td>Selected Topics from English Literature</td>
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<td>Literary Translation (English-Turkish)</td>
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### FOURTH YEAR (Interpretation Track)

#### Autumn Semester

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<td>SFL 431</td>
<td>French in Corporate Communication</td>
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<td>TRIN 461</td>
<td>English-French Translation Workshop I</td>
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<td>Interpreting for Public Services</td>
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#### Spring Semester

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### FOURTH YEAR (Written Translation Track)

#### Autumn Semester

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#### Spring Semester

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### RESTRICTED ELECTIVES

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<td>Management Information Systems (in French)</td>
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<td>BF 161</td>
<td>Economics I</td>
<td>3</td>
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<td>TRIN 207</td>
<td>Language of Journalism</td>
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<td>TRIN 303</td>
<td>Technology for Translators</td>
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<td>Media Studies</td>
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<td>Introduction to Simultaneous Interpretation</td>
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<td>Introduction to Interpersonal Communication (in French)</td>
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<td>TRIN 340</td>
<td>Audiovisual Media Translation I</td>
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<td>TRIN 371</td>
<td>Computer Literacy</td>
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At least four courses should be taken from the elective courses list above.
TRIN 101 Comparative Grammar (English-Turkish)
Comparative study of the principal grammatical structures of English and Turkish, including lexical items. Presentation of basic concepts necessary for lexical studies: semantics, etymology, variants and formation. Credit units: 3 ECTS Credit Units: 6. Aut (A. Bayrakçeken Akin)

TRIN 102 Applied Linguistics
Introduction to applied linguistics with special emphasis on the morphological, syntax and semantics of the French and Turkish languages. Role of linguistics in translation and in rhetoric analysis. Credit units: 3 ECTS Credit Units: 6. Spr (A. H. Sunel)

TRIN 103 Comparative Grammar (French-Turkish)
Comparative study of the principal grammatical structures of French and Turkish, including lexical items. Presentation of basic concepts necessary for lexical study: semantics, etymology, variants and formation. Credit units: 3 ECTS Credit Units: 6. Aut (A. H. Sunel)

TRIN 133 Texts and Composition in French I
This course uses texts of a general nature as a basis for developing the students’ oral and written skills in French. Emphasis is on style, language registers, vocabulary building and composition. Oral work includes small group discussions and debates on current topics in addition to public speaking. Credit units: 3 ECTS Credit Units: 5. Aut (C. Cangır, Y. Tanbi)

TRIN 134 Texts and Composition in French II
This course uses texts of a general nature as a basis for developing the students’ oral and written skills in French. Emphasis is on style, language registers, vocabulary building and composition. Oral work includes small group discussions and debates on current topics in addition to public speaking. Credit units: 3 ECTS Credit Units: 5. Spr (C. M. N. Malet-Peterson)

TRIN 161 Introduction to Translation
This course consists of an introduction to the theory and methods of translation. It includes a study of the nature, function and features of language, a survey of the development of the English, French and Turkish languages, and a description of translation as a profession. Credit units: 3 ECTS Credit Units: 6. Aut (E. Aksoy, A. Bayrakçeken Akin)

TRIN 166 English-Turkish-French Translation
This course consists of oral and written translation from English into Turkish and from French into Turkish of topics drawn from a variety of sources. The course includes comparative stylistics of English / Turkish and French / Turkish, including a study of language registers. It also includes the use of recorded broadcasts and radio reports as a spoken source for translation purposes. Credit units: 4 ECTS Credit Units: 6. Spr (E. Aksoy, A. Bayrakçeken Akin)

TRIN 172 Computer Literacy
Basic Computer Literacy. Efficient use of a computer for translation students, using word processing, compression, web page building, presentation, picture, spreadsheet and database software. Credit units: 3 ECTS Credit Units: 6. Spr (E. Maloney)

TRIN 205 English-American and French Culture I
The study of contemporary American and French societies through a selection of texts and audiovisual materials. Emphasis on the cultural, social and legal aspects of American and French civilizations. Credit units: 3 ECTS Credit Units: 6. Aut (C. M. N. Malet-Peterson, E. Maloney)

TRIN 206 English-American and French Culture II
The study of English and French speaking societies through oral discussions and presentations with emphasis on the political and economic aspects of the culture. Credit units: 3 ECTS Credit Units: 6. Spr (B. Blackwell Gülen, E. Maloney)

TRIN 207 Language of Journalism
An analytical approach to the study of journalistic texts (French or English and Turkish). Emphasis is on journalistic style and register. Credit units: 3 ECTS Credit Units: 6.

TRIN 236 Group Communication and Discussion
This course is designed to provide an understanding of group dynamics and aims to improve student communication in English and French. Emphasis will be given to verbal and non verbal communication, active listening and responding techniques, problem solving and decision making. Credit units: 3 ECTS Credit Units: None. Spr (B. Blackwell Gülen, Ş. Dalbudak, V. C. E. Paternotte)
TRIN 265 Translation of Economic Texts (English-Turkish-French)
This course consists of written translation from English into Turkish and French into Turkish on topics related to economics and business drawn from a variety of sources. The course includes terminological research and emphasizes style and language registers. Credit units: 4 ECTS Credit Units: 6. Aut (C. Ekiz, B. Fakıoğlu)

TRIN 266 Translation of Political and Legal Texts (English-Turkish-French)
This course consists of written translation from English into Turkish and French into Turkish on topics related to politics and law drawn from a variety of sources. The course includes terminological research and emphasizes style and language registers. Credit units: 4 ECTS Credit Units: 6. Aut (Staff) Spr (Ş. Dalbudak, B. Fakıoğlu)

TRIN 267 Sight Translation I
This course consists of oral translation from English into Turkish and French into Turkish on texts related to economics and business. Sight translation is also used as a vehicle for voice training and enhancement of students’ general knowledge. Credit units: 3 ECTS Credit Units: 6. Aut (A. Bayrakçeken Akın, B. Fakıoğlu, M. Kaya, A. Ş. Okyayuz)

TRIN 268 Sight Translation II
This course consists of oral translation from English into Turkish and French into Turkish of texts related to politics and law. Sight translation is also used as a vehicle for voice training and enhancement of students general knowledge. Credit units: 3 ECTS Credit Units: 6. Spr (A. Bayrakçeken Akın, Ş. Dalbudak, B. Fakıoğlu, M. Kaya, A. Ş. Okyayuz)

TRIN 271 Business Communication
Introduction to the theory of communication. Written and oral communication in a business environment. Emphasis is on writing business letters, business reports, participating in debates and negotiations and giving oral presentations. Credit units: 3 ECTS Credit Units: 5. Aut (B. Blackwell Gülten, M. A. Erkoğ)

TRIN 303 Technology for Translators
This course aims to acquaint the students with technologies and electronic tools used by translators in their professions. Special attention will be devoted to computer assisted translation systems, use of online material and resources, translation project management and terminology compilation techniques. Credit units: 3 ECTS Credit Units: 6. Spr (A. Ş. Okyayuz)

TRIN 330 Criticism and French Literature
Study of a French literary work using an interdisciplinary approach. Particular emphasis will be placed on a plural reading of a novel from different aspects (historical, sociological, structural, economic, political). In addition the essential elements of the novel such as time, space, narrator, characters will be analysed. Credit units: 3 ECTS Credit Units: 6. Spr (T. İnal)

TRIN 332 Selected Topics from English Literature
Research, discussion and reports on problems in English Literature. Credit units: 3 ECTS Credit Units: 6. Spr (A. Bayrakçeken Akın)

TRIN 334 Media Studies
This course provides an introduction to Media Studies. It covers all the key topics encountered in Media Studies, including images and languages, narratives, genres, representations, advertising, marketing, realisms, modernism and postmodernism, institutions, industries, institutions, independent and alternatives, and producing. The course also includes in-depth case studies and follow-up activities. Throughout the course, examples are provided from a rich range of media forms, including advertising, films, television, radio, newspapers, magazines and photography. Credit units: 3 ECTS Credit Units: 6. Spr (C. M. N. Malet-Peterson)

TRIN 335 Note-Taking and Consecutive Interpretation
This course aims at combining oral comprehension with the ability to reproduce speeches and to note them down while a speaker delivers a speech. Note-taking procedures and bilateral interpretation techniques will also be stressed. Credit units: 3 ECTS Credit Units: 6. Aut (M. Kaya, A. Ş. Okyayuz)

TRIN 336 Introduction to Simultaneous Interpretation
This course emphasizes the techniques and practice of simultaneous interpretation. It also includes the techniques of liaison interpretation. Credit units: 3 ECTS Credit Units: 6. Spr (M. Kaya, A. Ş. Okyayuz)

TRIN 337 Precis Writing in English-French
This course consists of an introduction to the technique of precis-writing based on texts of a specialized nature and on recorded speeches. It also includes note-taking, editing and minute-writing. Credit units: 3 ECTS Credit Units: 6. Aut (B. Blackwell Gülten, C. M. N. Malet-Peterson)

TRIN 339 Introduction to Interpersonal Communication (in French)
This course offers basic knowledge of interpersonal communication principles and their practical application in everyday interpersonal settings. Emphasis is on improving interpersonal skills and helping students increase
their communication competence through readings, lectures, in-class activities and out of class assignments. 
Credit units: 3 ECTS Credit Units: 6. Aut (C. M. N. Malet-Peterson)

TRIN 340 Audiovisual Media Translation I
This course aims to introduce the students to the knowledge and skills required for producing the translated version of an audiovisual product. Besides becoming familiar with the professional practice in this field, students will concentrate on techniques, resources and strategies for practical translation work in the media and enhance their awareness of dubbing, subtitling, web translation and audio description, including linguistic and cultural problems specific to audiovisual translation. Credit units: 3 ECTS Credit Units: 6.

TRIN 361 Technical Translation (English-Turkish)
This course consists of written and oral translation from English into Turkish of scientific and technical material drawn from a variety of sources, including medical and pharmaceutical. The course includes documentary and terminological research and emphasizes style and language registers. Credit units: 3 ECTS Credit Units: 6. Aut (C. Ekiz)

TRIN 363 Technical Translation (French-Turkish)
This course consists of written and oral translation from French into Turkish of scientific and technical material drawn from a variety of sources, including medical and pharmaceutical. The course includes documentary and terminological research and emphasizes style and language registers. Credit units: 3 ECTS Credit Units: 6. Aut (A. H. Sunel)

TRIN 364 Literary Translation (English-Turkish)
This course consists of written and oral translation from English into Turkish and includes documentary and terminological research with emphasis on style and language registers. Credit units: 3 ECTS Credit Units: 6. Spr (A. Bayrakçeken Akın)

TRIN 366 Literary Translation (French-Turkish)
This course consists of written and oral translation from French into Turkish and includes documentary and terminological research with emphasis on style and language registers. Credit units: 3 ECTS Credit Units: 6. Spr (A. H. Sunel)

TRIN 371 Computer Literacy II
Web Page Design. In the first half of the course, students learn how to: 1) write HTML and CSS code; 2) edit pre-written java script; and 3) edit photos. In the second half of the course, students build or change Bilkent department web pages, with the course instructor as technical supervisor and another Bilkent staff person as design supervisor. Credit units: 3 ECTS Credit Units: 6. Aut (E. Maloney)

TRIN 461 English-French Translation Workshop I
This workshop progressively leads the student to develop French-English, English-French translation skills through intensive work on translation assignments and individual and group projects involving comparative analysis of a variety of texts. Credit units: 3 ECTS Credit Units: 6. Aut (V. C. E. Paternotte)

TRIN 462 English-French Translation Workshop II
This workshop further develops the students English-French, French-English translation skills through intensive work on translation assignments and individual and group projects involving the translation of a variety of texts. Credit units: 3 ECTS Credit Units: 6. Spr (V. C. E. Paternotte)

TRIN 463 Translation Criticism
Analysis of translated text and discussion of parallel points. Criticism of translations. Credit units: 3 ECTS Credit Units: 3. Aut (A. Ş. Okyayuz, A. H. Sunel)

TRIN 464 Professional Communication for Interpreters
The course aims to train students in the communication skills techniques required by interpreters in the professional world. Emphasis will be given to conducting meetings, negotiating contracts and presenting projects to English and French speaking audiences. Credit units: 3 ECTS Credit Units: 6. Spr (T. İnal, A. Ş. Okyayuz)

TRIN 473 Turkish Diction
This course will particularly stress the need to speak Turkish efficiently and correctly with a special emphasis on the right pronunciation of words. Credit units: 1 ECTS Credit Units: 2. Aut (M. Çelik) Spr (M. Çelik)

TRIN 481 Consecutive and Simultaneous Interpretation Techniques
This course provides further practice in the techniques of consecutive interpretation with emphasis on bilingual practical applications. Credit units: 6 ECTS Credit Units: 10. Aut (A. Akıncı Candoğan, M. Kaya)

TRIN 484 Simultaneous Interpretation II: Fieldwork+Projectwork
Implementing simultaneous interpretation. Under the supervision of a professional interpreter, the student will work in actual conference situations. Students are required to work on a project (under the supervision of an instructor) based on videotape recordings of conferences/seminars. Emphasis will be given to the preparation
of dialogue lists/scripts in English/Turkish and French/Turkish and vice-versa. Credit units: 6 ECTS Credit Units: 12. Spr (A. Akınç Candoğan, M. Kaya)

TRIN 485 Translation Workshop for EU Texts and Documents I
This course consists of translation from English into Turkish, French into Turkish on topics of current interest and related to the European Union and its institutions. Credit units: 6 ECTS Credit Units: 10. Aut (C. Ekiz, T. İnal)

TRIN 486 Translation Workshop for EU Texts and Documents II
This course provides training in translation from English into Turkish and French into Turkish of legal and official documents as well as texts related with current European issues. Credit units: 6 ECTS Credit Units: 12. Spr (C. Ekiz, A. H. Sunel)

TRIN 487 Interpreting for Public Services
This course provides an introduction to the context of public service interpreting and stresses interpreting for the courts, the police and immigration services. Students will learn about liaison and whisper interpretation and reinforce consecutive interpretation skills all of which will be practiced through simulations of relevant interpreting situations. Credit units: 3 ECTS Credit Units: 6. Aut (A. Akınç Candoğan, T. İnal)

FRP 101 Communicative French Skills I
Credit units: None ECTS Credit Units: None. Aut (A. Karanfil, A. Noyanlıpan)

FRP 102 Listening Comprehension and Public Speaking I
Credit units: None ECTS Credit Units: None. Aut (A. Noyanlıpan, M. Özataç, Y. Tanbi)

FRP 103 Analytical Reading and Writing Strategies I
Credit units: None ECTS Credit Units: None. Aut (C. Cangır, A. Karanfil)

FRP 104 Linguistics, Grammar and CAL (Computer Assisted Language) I
Credit units: None ECTS Credit Units: None. Aut (G. Özök)

FRP 201 Communicative French Skills II
Credit units: None ECTS Credit Units: None. Aut (A. Demir)

FRP 202 Listening Comprehension and Public Speaking II
Credit units: None ECTS Credit Units: None. Aut (B. Fakıoğlu)

FRP 203 Analytical Reading and Writing Strategies II
Credit units: None ECTS Credit Units: None. Aut (C. Cangır, A. Karanfil)

FRP 204 Linguistics, Grammar and CAL (Computer Assisted Language) II
Credit units: None ECTS Credit Units: None. Aut (M. Özataç)
The Department of Turkish Literature, which offers graduate degrees, has admitted its first students to the M.A. program in the 1998-1999 academic year. The Ph.D. program for the graduates of the M.A. program and other qualified candidates started in 2001.

The graduate programs are designed to encompass all periods and genres of oral and written Turkish literature from its beginnings until the present day. Present fields of concentration are: Ottoman Literature, 19th Century Literature and 20th Century Literature.

Unlike many of the traditional departments in this field, the Department of Turkish Literature encourages free and creative thinking, emphasizing research, analysis, interpretation, and criticism. Aiming at enhancing the standards of Turkish literary studies and universalizing the field, the Department underscores proficiency in several languages and encourages theoretical, interdisciplinary, and comparative approaches.

The language of instruction for courses in the Department is Turkish, except in instances where a non-Turkish visiting professor might prefer to teach in English.

Master of Arts in Turkish Literature

The duration of the M.A. program is three years, including a prep year, during which students take courses designed to introduce them to various aspects of literature and to strengthen their proficiency in Ottoman Turkish and foreign languages.

Admission

For entering the M.A. program applicants must be graduates of four-year undergraduate programs, preferably in literature. Applications will be evaluated on the basis of the applicant's scholastic record, ALES results, level of proficiency in Turkish and English, a composition designed to assess his/her ability to critically analyze literary texts, and an interview.

Degree Requirements

Candidates for the M.A. degree are required to complete at least 36 units of credit beyond the preparatory year and to prove their competence in Turkish, Ottoman, and English. Some students may be exempted from English and/or Ottoman depending on their proficiency levels. The candidates may be required to learn additional languages according to their fields of concentration: Persian and/or Arabic for Ottoman Literature; French and/or German for 19th Century Literature and 20th Century Literature. Candidates should prepare and defend a Master's thesis. They should maintain a minimum GPA of 3.00 throughout their studies. Language courses and thesis writing are without credit.

CURRICULUM

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<td>Turkish Folk Literature</td>
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<td>Turkish Literature 1839-1922 I</td>
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<td>Turkish Poetry</td>
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<td>Turkish Literature 1839-1922 II</td>
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<td>Seminar on Divan Literature</td>
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Doctor of Philosophy in Turkish Literature

The doctoral program in Turkish literature is initiated in 2001. Applicants to the program are required to hold an M.A. degree in Turkish Literature or related fields from Bilkent or other universities. To be admitted to the program, applicants from other universities may be required to take written and/or oral exams. The duration of the doctoral program is normally 3.5 years.

Doctoral students must complete course work of at least 24 credit hours with a minimum GPA of 3.00 and fulfill all language requirements before they present their written dissertation proposals and take the comprehensive written and oral exams. The research proposal for the dissertation must be approved by the Department before the candidates may take the comprehensive exams. These exams are designed to evaluate the candidate's expertise in his/her area of concentration and research proposal for the dissertation. The candidate is eligible to take the orals after passing the written exam. Following the successful completion of these requirements, the candidates will conduct research and proceed with the writing of their dissertation, which should embody original research and make a substantial contribution to Turkish literary scholarship. Candidates must successfully defend their dissertation before a committee of the faculty.

Bilkent University will award the successful doctoral candidates the degree of “Doctor of Philosophy in Turkish Literature”.

CURRICULUM

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COURSE DESCRIPTIONS

PREP YEAR COURSES

EDEB 413 Theoretical History of Western Civilization

In this course, western civilization, from preliterate societies to modern times, will be examined theoretically. Political, economic, religious, technological and artistic transformations on various levels are to be dealt with from different theoretical points of view. Ancient Greek and Roman contributions with respect to philosophy and law are also on the agenda of this course. Historical backgrounds of Humanism, Renaissance, Scientific Revolution, Reformation, Enlightenment and Romanticism are, inter alia, part of the basic problematic to be discussed. Furthermore, numerous important questions will be raised, among them: ‘Are primitive/civilized differences tenable?’, ‘On what basis can there be periodization of human history?’, and ‘How the human mind passes from myth to Logos?’ Credit units: 3 ECTS Credit Units: 6. Aut (H. Yavuz)

EDEB 419 The Turkish Short Story

The origins of the contemporary short story in Turkish literature may be found in Aziz Efendi's Muhayyel, a late 18th-century work, which is considered a bridge between the story-telling tradition in the East and the modern short story. In this course, the development of the modern Turkish short story will be examined in historical context, especially with regard to its generic transformation, and in terms of comparisons of style and content among various works by modern authors. Credit units: 3 ECTS Credit Units: 6. Spr (N. Yazici)

EDEB 424 Introduction to Divan Literature

Taking off from the question, “What kind of literature is Divan literature?” this course aims to introduce the aesthetic structure and understanding of divan literature, regarding both form and contents, and to see how they are different from those of today. Our primary topic is poetry: we examine Aruz metrics, the rules of rhyme, and...
verse forms; we also discuss figures of speech and subtleties of expression. Credit units: 3 ECTS Credit Units: 6. Aut (H. N. Tezcan)

EDEB 434 Introduction to Divan Literature II
Ottoman literature endured for 600 years. Its classical epoch ended in the 16th century and its transformation began in the 17th century. This transformation and reorientation period lasted into the 18th century and ended with westernization in the 19th century. In this course we shall examine and discuss the lyric poetry, *mesnevis* and prose works. Credit units: 3 ECTS Credit Units: 6. Spr (H. N. Tezcan)

GRADUATE COURSES

EDEB 401 Introduction to Turkish Literature I
Designed to give the student an overview of Turkish Literature, the course will deal with earliest poems, the Orkhon Inscriptions, major early works (Divan-i Lugati’t-Türk, Kutadgu Bilig, Dede Korkut, etc.), highlights of Seljuk Literature (especially Yunus Emre), and the most important works of Divan poetry and prose (from the 14th century to the mid-19th century). Credit units: 3 ECTS Credit Units: 6. Aut (S. Tezcan)

EDEB 402 Introduction to Turkish Literature II
This course will provide an overview of Turkish literature from the Tanzimat era to the present. Emphasis will be on the development of literary genres such as the novel, short story, drama, poetry, essay, and criticism in the modern era. The ethical and aesthetic arguments of major literary movements, key literary debates, and the social impact of literature will be discussed and evaluated. Readings will include major works in various genres. Credit units: 3 ECTS Credit Units: 6. Spr (S. Tezcan)

EDEB 403 Theories of Literature
This course will provide a wide-ranging theoretical background for the practice of literary criticism. A general survey of western literary history, literary movements, genres, and key terms, will be followed by the examination of modern literary/critical theories, including formalist, structuralist, post-structuralist, Marxist, feminist, and psychoanalytical approaches. Readings (in Turkish) will include selections from Aristotle, Barthes, Benjamin, Derrida, Eagleton, Escarpit, Freud, Genette, Jameson, Lukacs, Ong, and Todorov among others. Students will write reading reports, make a presentation, and write a term paper on a selected topic. Credit units: 4 ECTS Credit Units: 8. Spr (G. Gökalp Alpaslan)

EDEB 405 Written Expression
This course aims at enhancing the appreciation and control of written Turkish at a high level. It will equip the students with the fundamental skills of writing and editing. After a review of the basic elements of composition (thesis, organization, style, tone), the techniques of narration (summary, paraphrase, quotation), the rules of punctuation, citation, etc., numerous examples of printed works will be discussed in class. Regular writing and rewriting assignments will be given. Emphasis will be on non-fictional prose, including scholarly and critical writing. Credit units: 3 ECTS Credit Units: 6. Aut (L. B. Dündar)

EDEB 411 Ottoman Turkish I
This course will introduce the students to the Ottoman script and teach them the fundamentals of Ottoman-Turkish grammar through readings and writing exercises. Credit units: 4 ECTS Credit Units: 8. Aut (K. Emirıyorum)

EDEB 412 Ottoman Turkish II
This course will enhance the students’ comprehension of the Ottoman script and the fundamentals of Ottoman-Turkish grammar through readings and writing exercises. Credit units: 3 ECTS Credit Units: 6. Spr (K. Emirräu)\)

EDEB 414 Introduction to Folk Literature
This course will offer an historical survey of the major genres of Turkish folk literature including poetry, folktale, the epic, and folk humor. Students will be introduced to significant scholarly works in the field as well. Credit units: 3 ECTS Credit Units: 6. Spr (Ö. Oğuz)

EDEB 416 Criticism
This course aims at furnishing the students with a critical understanding of the development of the theory and practice of literary criticism in Turkey since Ottoman times. Readings will include selections from the works of such writers as Atac, Cemal Süreyya, Fethi Naci, Gürbilek, Moran, Parla, Tanpinar, and Yavuz. Assignments will include regular reading reports, a class presentation, and a term paper. Credit units: 4 ECTS Credit Units: 8. Spr (H. Yavuz)

EDEB 503 Ottoman Divan Literature
This course will cover the most important genres of Ottoman Divan literature including poetry (gazel, kaside, *mesnevi*) and prose (*tezkires*, *chronicles*, *risales*). It will prepare the students for a broader critical understanding of Ottoman literature. Credit units: 3 ECTS Credit Units: 6. Aut (H. N. Tezcan)

EDEB 504 Turkish Folk Literature
This course will concentrate on diverse types of Turkish oral literature – folk poems and tales, epics and narratives, anecdotes and satirical pieces, riddles and lyrics from Anatolia. Credit units: 3 ECTS Credit Units: 6. Aut (Ö. Oğuz)
EDEB 505 Turkish Literature 1839-1922 I
This course will examine the major developments in Turkish literature from the Tanzimat era to the founding of the Republic. Emphasis will be on the inception and transformation of various literary genres including the novel, the essay, poetry, drama and criticism. The contest between tradition and modernity, debates concerning literariness and the place of literature within society, and the social impact of the literature of the period will be among the key areas of investigation. Readings will consist of the major works of significant writers and poets, as well as secondary literature, including, A.H. Tanpınar’s XIX. Asır Türk Edebiyatı Tarihî. Credit units: 3 ECTS
Credit Units: 6. Aut (G. Gökşalp Alpaslan)

EDEB 507 Turkish Poetry
Following a brief overview of the process of change in Turkish poetry from Tanzimat (reforms period) until the Republic, this course will survey and discuss movements, changing ideological and aesthetic approaches, the correlation between modern poetry and Republican enlightenment from 1923 until the present day. It will also make a critical analysis of modern poetry in conjunction with literary theories. Credit units: 3 ECTS Credit Units: 6. Aut (H. Yavuz)

EDEB 510 Turkish Literature 1839-1922 II
This course will examine the major developments in Turkish Literature from the Tanzimat era to the literature from the Tanzimat to the founding of the Republic. Emphasis will be on the inception and transformation of various literary genres including the novel, the essay, poetry, drama and criticism. The contest between tradition and modernity, debates concerning literariness and the place of literature within society, and the social impact of the literature of the period will be among the key areas of investigation. Readings will consist of the major works of significant writers and poets. Credit units: 3 ECTS Credit Units: 6. Spr (G. Gökşalp Alpaslan)

EDEB 511 Ottoman Turkish III
This course will enhance students’ comprehension of Ottoman texts from all periods and genres. Credit units: 3 ECTS Credit Units: 6. Aut (K. Emiroğlu)

EDEB 512 Ottoman Turkish IV
This course aims at furnishing students with an understanding of problematic Ottoman texts. Credit units: 3 ECTS Credit Units: 6. Spr (K. Emiroğlu)

EDEB 514 Seminar on Divan Literature
History of Ottoman literature from the 17th to the end of the 19th century. This course will cover the most important genres of Ottoman Divan literature including poetry (gazel, kaside, mesnevi) and prose (tezkires, chronicles, risales). It will prepare the students for a broader critical understanding of Ottoman Literature. Credit units: 3 ECTS Credit Units: 6. Spr (M. Kalpakli)

EDEB 524 The Turkish Novel
This course will examine the transformation of the social, psychological and aesthetic parameters of the Turkish novel from its inception in the latter part of the 19th century to its most recent examples. Areas of interest will include: the relationship of the early novels with traditional narratives; the questions concerning the social representativeness of novels; the formal changes in the tradition of novel writing, and critical responses to key novels. Readings will include major samples of such subtypes of the Turkish novel as the historical novel, philosophical novel, village novel, nature novel, and modernist novel as well as several critical books and essays. Credit units: 3 ECTS Credit Units: 6. Spr (G. Gökşalp Alpaslan)

EDEB 526 Divan Literature Through Texts
In this course several sample texts of Ottoman Divan literature, including those in the forms of münazara, sakiname, şehrengiz, dibace, and tezkire, will be read and discussed. Emphasis will be on comprehending the special vocabulary of these texts and the unique way of thinking they express. Credit units: 3 ECTS Credit Units: 6. Spr (H. N. Teçkan)

EDEB 530 Literary Translation
Organized essentially as a workshop, this course will familiarize students with techniques of translating Turkish literary texts into English. It is designed for students with proven proficiency in English. Texts will include verse and prose from most periods of Turkish literary history, certainly Divan, folk, Tanzimat and modern literature. Selections may vary depending upon individual needs related to the field of specialization and/or thesis topic. This course will train students in literal translation as well as in doing creative - and hopefully publishable - versions. Credit units: 3 ECTS Credit Units: 6. Spr (L. Tepedelen)

EDEB 591 Thesis Seminar I
This course is designed to guide the Master’s students in their thesis work. Research methods, literature review, elaboration of topics, and organization of material will be discussed in periodic meetings. Presentation in departmental seminars may be requested. Credit units: 2 ECTS Credit Units: 10.

EDEB 592 Thesis Seminar II
This course is designed to guide the Master’s students in their thesis work. Research methods, literature review, elaboration of topics, and organization of material will be discussed in periodic meetings. Presentation in departmental seminars may be requested. Credit units: 2 ECTS Credit Units: 10.
EDEB 593  Seminar
This seminar gives an opportunity to Master students, in periodic meetings with lecturers and fellow students, to report on the development stages of their thesis work and to discuss specific as well as general problems, such as research methods, review of the literature, elaboration of topics, and organization of material.  Credit units: None ECTS Credit Units: None.

EDEB 599  Master's Thesis
Credit units: None ECTS Credit Units: None. Aut (Staff) Spr (Staff)

EDEB 602  Old Uygur Literature
The subject of this seminar is the Old Uygur Literature that developed in East Turkistan (Sinkiang) around 850-1400 C.E. Old Uygur is the second Turkic literary language, following that of Orhun-Yenisey Turkic. Since it was in continuous use for over 500 years, it became a classic literary language. Even after the Islamization of East Turkistan, Old Uygur continued to be to be taught farther east in Buddhist religious centers (such as Dunhuang) until the middle of the 17th century, and books continued to be produced in this language. Old Uygur Literature, which was introduced in outline in the Masters preparatory class entitled “Introduction to Old Turkic Literature,” will be studied more comprehensively in this seminar (genres, works, Old Uygur literary terminology, known authors, translators, etc.). The majority of prose texts in this literature are Buddhist and Manichaean texts that were translated into Turkic from various languages. After a brief review of Old Turkic, we will read samples of both the prose texts, which are translations, and the poetic texts, which are original compositions. We will also discuss the influence of the Old Uygur literary language on the Islamic Turkic literary languages, and the influence of Old Uygur literature on the Islamic Turkic literatures.  Credit units: 3 ECTS Credit Units: 6. Spr (S. Tozcan)

EDEB 606  Sufi Seminar
In this seminar Islamic mysticism, orthodox as well as heterodox, will be discussed with special reference to Sufi poetry and its history. Especially the question that, in the absence of systematic philosophical tradition, can mysticism work in loco parentis as a systematic world-view will be dealt with. other topics like the theoretical basis of Sufi symbolism will also be on the agenda.  Credit units: 3 ECTS Credit Units: 6. Spr (H. Yavuz)

EDEB 607  Modernism in Turkish Literature
This course will deal mainly with the repercussions of political and social aspects of Modernism qua Western- ization in the Ottoman and Republican Turkish Literature. But, Modernism as a transformation of literature itself, especially in the field of poetry will also be critically investigated.  Credit units: 3 ECTS Credit Units: 6. Aut (H. Yavuz)

EDEB 608  Critical Approaches to Turkish Literature
This course designed to reevaluate modern Turkish (Republican) literature from a theoretical point of view. Theories such as Marxism and Psychoanalysis (Freudian and Lacanian), and philosophical currents (Phenomenology and Existentialism, among others) will be brought to bear upon related texts to produce new critical understand- ing.  Credit units: 3 ECTS Credit Units: 6. Spr (H. Yavuz)

EDEB 609  Oghuz Khan Narratives
In this seminar, the focus of study will be the tales and narratives concerning Oghuz Khan, the legendary ancestor of the Oghuz tribe. Currently, there are various extant texts written in Eastern Turkic, Anatolian Turkish, and Persian, all of which are quite different from one another. The oldest of these is believed to date back to the 12th century. Some of the texts many have been reworked and significantly altered in subsequent centuries, using older examples as a basis. Some of these texts were written in prose and some of them in verse. Some of them have been entirely preserved, while others are in a fragmentary state. In these narratives, the birth, life, and death of Oghuz Khan are narrated, together with the story of his defeating his enemies, conquering the world, and subsequently dividing his conquests up among his sons. In some, the narrative moves from legendary history through to historical centuries and continues with factual, historical events. These narratives contain a number of old epic motifs, folk etymologies, and similar elements. In the seminar, we will study the Turkish texts in the original language and the Persian texts in translation, and we will analyze the narratives from the literary point of view. Among the subjects that will be accored particular importance is to distinguish between the motifs taken into the narratives from old epics and those that were added later.  Credit units: 3 ECTS Credit Units: 6.

EDEB 616  Comparative Modern Turkish and Arabic Literature
Organized in seminars, this course will explore the varying approaches of modern Turkish and Arab writers to themes and concepts such as love, exile, nationalism, Orientalism, Occidentalism, religion, and realism. Though the focus will be mainly on twentieth century poetry, other literary genres such as the novel, the short story, and drama too will be considered. A cross-disciplinary approach will be encouraged as links between literature and other art-forms will be explored. Readings will consist of the works of significant writers and poets, the original Turkish and whenever possible the Turkish translations of Arabic texts.  Credit units: 3 ECTS Credit Units: 6.

EDEB 619  World Fiction
This seminar will critically survey and discuss several major 20th century novels and many modern short stories translated into Turkish. It will examine the cultural contexts of the novels and short stories, the way they reflect their times and respective societies, their fictional techniques, aesthetic and ethical concerns, and influences (if
any) on Turkish fiction. Relevant theories will also be analyzed. **Credit units: 3 ECTS Credit Units: 6. Aut (T. S. Halman)**

**EDEB 620 Seminar on Evliya Celebi and the Seyahatname**
The *Seyahatnâme* ("Book of Travels") the first and finest example of a unique genre of Ottoman literature - is not merely a travel guide but is at the same time a work of literature. It contains rich narrative elements that are included in the conveying of information, the description of observations and experiences, and the reflection of value judgments. This seminar critically examines the ideas that have been proposed concerning when, where and how the *Seyahatnâme* was written; and evaluates the text editions and the important researches that have been made until now. We read selected passages of the work and discuss its contents, structure, scope, and literary features. Using examples of true or false or exaggerated information contained in the *Seyahatnâme* we investigate preconceptions regarding the work and discuss its value today. **Credit units: 3 ECTS Credit Units: 6. Spr (H. N. Tezcan)**

**EDEB 621 Seminar on the Mesnevi in Divan Literature**
The seminar provides a historical perspective on the Mesnevi genre from the thirteenth century onward, and examines how it ceded its place to the novel and short story as Turkish literature opened to the West in the nineteenth century. We take a topical approach, and discuss the origin of the Mesnevi genre and the way in which it assumed a Turkish (or Anatolian) dress. We also read selected mesnevis examining such features as structure, plot, authors’ apologies, genre, folk tale elements, societal value judgments, and local elements; compare these with the techniques and understanding of the Western novel. **Credit units: 3 ECTS Credit Units: 6. Aut (H. N. Tezcan)**

**EDEB 626 The Dede Korkut Oguznames**
How an ancient heroic epic of the Òguz came to be written down in twelve episodes, with variations, in the Eastern Anatolia - Azerbaijan region, in the fifteenth century. Manuscripts of the work and history of scholarship. Dede Korkut (Korkut Ata) as legendary bard and soothsayer. Language, linguistic and philological problems. Style, subject matter, heroes. The place of the *Book of Dede Korkut* in Turkish literature. Anatolian folk tales that resemble the stories in the *Book of Dede Korkut*. Samples of the *Oguznames* will be studied and analyzed from various perspectives. **Credit units: 3 ECTS Credit Units: 6.**

**EDEB 628 Heroic Religious Epics**
This course will basically deal with the topic of heroic Islamic epics, which were composed in Anatolia during XIV. and XV. centuries and later, or translated from Arabic and Persian in the same time period (Danışmandnâme, Saltuknâme, Battalnâme usw.). Works like Vilayetnâmes and Menâkibnâmes will also be studied and samples from various texts elucidated. **Credit units: 3 ECTS Credit Units: 6. Aut (S. Tezcan)**

**EDEB 699 Ph.D. Dissertation**
Credit units: None ECTS Credit Units: None. Aut (Staff) Spr (Staff)
FACULTY OF LAW

Osman B. Gürzumar, Ph.D., Dean
Aslı Elif Gürbüz Usluel, Ph.D., Assoc. Dean
Şemsî Barış Özçelik, Ph.D., Assoc. Dean

ACADEMIC STAFF

Tekin Akilloğlu, Adjunct Professor

Hüseyin Can Aksoy, Instructor

Pınar Altınok Ormancı, Assistant Professor
Ph.D., Civil Law, Ankara University, 2011. Basic Concepts of Law, Selected Topics in Turkish Law, Law of Obligations (special part), Business Law, Introduction to Contract Law.

Murat Atalı, Visiting Associate Professor

Süleyman Zühtü Aytac, Visiting Professor

Fatma Aslı Bayata Canyas, Assistant Professor

İbrahim Sahir Çortoğu, Adjunct Professor

Elvin Evrim Dalkılıç, Assistant Professor
Ph.D., Public Law, Gazi University, 2009. Administrative Law. Introduction to Turkish Public Law.

Haluk Emiroğlu, Visiting Associate Professor

Mehmet Ali Erten, Adjunct Professor

Ece Göztepe Çelebi, Associate Professor

Aslı Elif Gürbüz Usluel, Assistant Professor

Osman B. Gürzumar, Professor

Ahmet Rüchän İşik, Visiting Professor

Halil Baha Karabudak, Instructor

Tuğrul Bayazıt Katoğlu, Visiting Associate Professor
Cengiz Koçhisarioğlu, Visiting Professor
Ph.D., Civil Law, Lausanne University, 1982. Introduction to Law, Civil Law, Property Law, Civil Law IV: Inheritance Law, General Methodology of Private Law.

Erden Kuntalp, Adjunct Professor

Mehmet Çağlar Manavgat, Visiting Associate Professor

Mehmet Kamil Mutluer, Adjunct Professor

Erdal Onar, Visiting Professor
Ph.D., Public Law, Ankara University, 1976. Constitutional Law, Turkish Constitutional History, Constitutional (judiciary), Parliamentary Law, Contemporary governmental systems.

Gülüm Özçelik, Assistant Professor
Ph.D., Private International Law, Ankara University, 2007. European Union Law, Private International Law, EU Substantive Law, Legal Aspects of Turkey-EU Relations, Selected Topics in English Law.

Şems Barış Özçelik, Assistant Professor

Hamdi Pınar, Assistant Professor

Sami Selçuk, Adjunct Professor

Ayiş Lale Sırmı, Visiting Professor
Ph.D., Civil Law, Ankara University, 1975. Property Law, Consumer Law, Civil law (Real securities), Legal acts (Transactions) theory.

Turgut Tan, Professor

Bilgin Tiystakçıoğlu, Visiting Professor

Haluk Toroslu, Instructor
LL.M., Ankara University Faculty of Law, 2007.

Nevzat Toroslu, Visiting Professor

**PART-TIME ACADEMIC STAFF**

Gizem Alper, LLM, Law and Economics, Bilkent University, 2011.

Şahin Ardiyok, LL.M., Chicago University, 2004.

Sertaç Hami Başerden, Ph.D., Public Law, Gazi University, 1987. (Professor at Ankara University)

Kemal Baştürk, Ph.D., International Law, Nottingham University, 1995. (Associate Professor at National Police Academy)

Bahar Bayazıt, LLM, Law and Economics, Bilkent University, 2011.

Ahsen Coşar, LL.B., Law, İstanbul University, 1974.


Damla Gül Duygun, LLM, Law and Economics, Bilkent University, 2011.

Ersin Erdoğan, LLM, Law and Economics, Bilkent University, 2011.
Yûksel Ersoy, Ph.D., International Law, Ankara University, 1976. (Professor Emeritus, Ankara University)
Susan Gale Wintermuth, Ph.D., Law, University of Arizona, 1976. (Professor at University of Hamburg).
Peter Gottwald, Ph.D., University Munich, 1974. (Professor at Universität Regensburg)
Yasin Alperen Karaşahin, Ph.D. Candidate, Private Law, University of Luzern.
Philip Kunig, Ph.D., Law, Institute of International Affairs (Hamburg), 1980 (Professor at Freie Universität Berlin).
Fuat Öğuz, Ph.D., Economics, George Mason University, 2000. (Associate Professor at Yûldõrõm Beyazõt University).
Muhammet Özekes, Ph.D., Civil Procedure, Dokuz Eylül University, 1998. (Professor at Gediz and Dokuz Eylül Universities)
Paolo Michele Patocchi, Ph.D., Law, University of Geneva, 1983.
Kerem Cem Sanci, Ph.D., Law, Marmara University, 2006. (Assistant Professor at Bilgi University)
Frank Skamel, Ph.D., Law, University of Leipzig, 2007.
Sinan Utku, JD, Ph.D., Physics, Yale University, 1994.
Gûlriz Uygur, Ph.D., Philosophy, Hacettepe University, 1999. (Associate Professor at Ankara University)
Ceren Ünal, LL.M., Computer and Communications Law, Queen Mary, University of London, 2002.

UNDERGRADUATE PROGRAM
The Faculty of Law offers a broad set of courses concerning all challenging dimensions of contemporary law. The curriculum is structured to provide the students not only with knowledge in classical and substantial areas like constitutional law, administrative law, civil law, commercial law and criminal law, but also with basic professional information in other fields requiring an international perspective of specialization like competition law, intellectual and industrial property law, international commercial arbitration, European Union law and international business law. The courses consisting of the Turkish positive law with national character are given in Turkish while some others representing an international character and/or which could be learned in a foreign language like philosophy, international human rights law, international business law, European Union law etc. are given in English.

CURRICULUM
FIRST YEAR

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<td>CS 121</td>
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<td>ENG 101</td>
<td>English and Composition I</td>
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Spring Semester

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<td>ENG 102</td>
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**SECOND YEAR**

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<td>Law of Obligations I</td>
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<td>PHIL 243</td>
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**THIRD YEAR**

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<td>Civil Law II: Law of Property I</td>
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<td>Civil Law II: Law of Property II</td>
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<td>Criminal Law (Special Part)</td>
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**FOURTH YEAR**

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<td>LAW 403</td>
<td>Civil Law IV: Inheritance Law</td>
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<td>LAW 407</td>
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GRADUATE PROGRAMS

LL.M. and M.A. in Law and Economics

The rapid improvement of the relationship between law and economics brought multidisciplinary studies into the centre of 21st century legal education and practice. In today’s world, where interaction between law and economics has become clearer under the light of the developments in relation to globalisation, the need for experts, who not only know the legal framework of market economy well, but also can comprehend the economic effects of legal rules and analyze the economic sides of different legal regimes, is growing. In order to meet this need, it is important to train university degree holders in economics as well as law.

Recent and rapid approximation of the objectives of law and economics that had been considered totally diverse academic fields for many years indicates some important points about the relationship between law and economics. Investors require experts, who can interpret the legal rules by taking economic points of view into consideration and comment on a certain economic behaviour in the legal framework of market economy as well as in the fields of Competition Law and Economic Regulation and with ability to adopt the interaction between law and economics in modern practice on the legal framework of market economy as well as in the fields of Competition Law and Economic Regulation and with ability to adopt the interaction between law and economics in modern practice of these disciplines.

Main purpose of the LL.M. Programme of Bilkent Law Faculty is to provide students with expertise on the legal framework of market economy as well as in the fields of Competition Law and Economic Regulation and with ability to adopt the interaction between law and economics in modern practice of these disciplines.

### CURRICULUM

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**Doctor of Philosophy in Private and Public Law**

The Faculty offers two Ph.D. programmes in Private Law and Public Law. The Programmes shall include courses in classical and substantial areas of both private and public law as well as in other fields requiring national and international perspective of specialisation. Some courses are held in English and others are in Turkish.

### CURRICULUM OF Ph.D. IN PRIVATE LAW

(for students with a master’s degree)

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COURSE DESCRIPTIONS
UNDERGRADUATE COURSES

LAW 101 Introduction to Law
Law and social order; the sources of law and the hierarchy of the norms; characteristics of common law and the continental legal systems; main branches of public and private law; organisation of the Turkish judicial system; the application of norms and the methods of interpretation; transactions and rights. (in Turkish) Credit units: 3 ECTS Credit Units: 3. Aut (T. Akkilloğlu, İ. S. Çöröğlu, H. Emiroğlu, C. Koçhisarlioğlu)

LAW 102 Roman Law
The subject of Roman Law and its importance in legal education; comparative study of Roman Law; historical introduction and the sources of Roman Law; law of persons and family law (slavery, citizens and non-citizens, the Roman family, corporations); Law of Actions - classification of actions; Law of Property (the law of things, classification of res, possession, ownership, modes of acquisition, servitudes, real securities); Law of Obligations: law of contracts (real, literal, verbal and consensual contracts); quasi contracts (condictio-negotiorum gestio); law of delicts (Furtum-Ratina-Iniuria-Damnum iniuria datum); quasi delicts; transfer and discharge of obligations. (in Turkish) Credit units: 3 ECTS Credit Units: 3. Spr (H. Emiroğlu)

LAW 103 Constitutional Law I
This course deals with the general principles of constitutional law, Ottoman-Turkish constitutional developments, and the structure and functioning of the Turkish constitutional system based on the 1982 Constitution. Particular attention will be given to questions of constitutional justice. (in Turkish) Credit units: 3 ECTS Credit Units: 5. Aut (E. Güzetepe Çelebi, E. Onar)

LAW 104 Constitutional Law II
This course will deal with the structure and functions of governmental institutions in Turkey with special emphasis on constitutional justice. (in Turkish) Credit units: 3 ECTS Credit Units: 5, Prerequisite: LAW 103. Spr (E. Güzetepe Çelebi, E. Onar)

LAW 105 Civil Law I
Subject matter, historical background, sources and application of civil law; Basic Concepts: Right, acquisition of rights and legal transactions; good faith (bona fides); protection of rights; Natural Persons: Beginning and end of personality, capacities, protection of personality; Legal Persons. (in Turkish) Credit units: 3 ECTS Credit Units: 5. Aut (M. A. Erten, O. B. Gürzumar, C. Koçhisarlioğlu) Spr (Staff)

LAW 106 Civil Law II
Law of Marriage: Engagement (the legal nature, conditions for a valid engagement, legal effects of engagement, end of engagement); marriage (the legal nature, conditions for a valid marriage, general legal effects of marriage and matrimonial property systems, dissolution of marital bond and its legal consequences); legitimacy (affinity); establishment of legitimacy, adoption, annulment of legitimacy, recognition, paternity suit, legal effects of legitimacy and especially the parental power (patron potestas); Family in broader sense; Guardianship (guardianship in technical sense, curatorship, statutory advisors). (in Turkish) Credit units: 3 ECTS Credit Units: 5, Prerequisite: LAW 105. Spr (P. Altınok Ormanç, M. A. Erten, C. Koçhisarlioğlu)

LAW 201 Law of Obligations I
Concepts of “obligational relationship” and “obligation”, sources of obligations, formation and validity of legal transactions; particularly contracts, representation, torts and unjust enrichment. (in Turkish) Credit units: 3 ECTS Credit Units: 6, Prerequisite: LAW 105. Aut (M. A. Erten, E. Kuntalp) Spr (Staff)

LAW 202 Law of Obligations II
Performance of obligations, violation of obligations and its consequences, cease of obligations and some specialties related to obligations; namely conditional obligation, joint obligation, transfer of debt and assignment of obligation. (in Turkish) Credit units: 3 ECTS Credit Units: 5, Prerequisite: LAW 201. Spr (M. A. Erten, E. Kuntalp)

LAW 203 Criminal Law I
Legality, sources and application of the criminal laws; General theory of crime; elements of a crime; Actus reus and defenses; superior orders, necessity; Mens rea and crimes of negligence; mistake and ignorance of the laws. (in Turkish) Credit units: 3 ECTS Credit Units: 6, Aut (S. Selçuk, N. Toroslu)

LAW 204 Criminal Law II
Different aspects of a crime; accompaniment, assistance after the offence, criminal attempt; Criminal responsibility; infancy, insanity; Theories of punishment; nature of punishment. Consequences and suspension of punishment. Amnesty; New perspectives in criminal law. (in Turkish) Credit units: 3 ECTS Credit Units: 5, Prerequisite: LAW 203. Spr (S. Selçuk, N. Toroslu)
LAW 205  Administrative Law I
Basic political and legal principles of Turkish administrative law; structural and functional aspects of central and local administrations, Rule-making power of administration. Unilateral administrative acts and contracts. Legal regime of public personnel and public domain. (in Turkish) Credit units: 3 ECTS Credit Units: 6. Aut (T. Akılşoğu, E. E. Dağlıkç, T. Tan)

LAW 206  Administrative Law II
Basic principles of judicial control of administration. Organization of administrative courts and Council of State: Judicial remedies (action for annulment and full remedy action); Liability of the administration and its agents. (in Turkish) Credit units: 3 ECTS Credit Units: 5, Prerequisite: LAW 205. Spr (E. E. Dağlıkç, T. Tan)

LAW 210  Basic Concepts of Law

LAW 211  Basic Concepts of Law

LAW 212  Introduction to Turkish Public Law
The course begins with an introduction to law and discussions on basic concepts of law. After referring to the distinction between public and private law; constitutional law and its sources are defined, followed by detailed information on fundamental issues of Turkish Constitutional Law, such as the characteristics of the republic according to the constitution, constitutional amendments and actions of legislative, administrative and judicial organs. The course proceeds with administrative law, with a focus on the analysis of administrative acts and financial liability of the state. Finally, basic concepts of criminal law and general crime theory are explained. Credit units: 3 ECTS Credit Units: 6. Spr (E. E. Dağlıkç)

LAW 214  Introduction to Turkish Public Law
The course begins with an introduction to law and discussions on basic concepts of law. After referring to the distinction between public and private law; constitutional law and its sources are defined, followed by detailed information on fundamental issues of Turkish Constitutional Law, such as the characteristics of the republic according to the constitution, constitutional amendments and actions of legislative, administrative and judicial organs. The course proceeds with administrative law, with a focus on the analysis of administrative acts and financial liability of the state. Finally, basic concepts of criminal law and general crime theory are explained. Credit units: 3 ECTS Credit Units: 6. Spr (H. Toroslu)

LAW 216  Introduction to Anglo-American Law
The course aims to introduce some basic concepts and terminology of Anglo- American legal system. In this regard following subjects shall be covered: origins of the common law, its area of application, comparison between common law and civil law, the law- making institutions; sources, precedent, acts of parliament, statutory instruments, statutory interpretation, the relationship between common law and statutory law, hierarchy of courts, jury trials. Credit units: 2 ECTS Credit Units: 4, Prerequisite: ENG 102. Spr (S. Gale Winternuth)

LAW 301  Civil Procedure I
Courts’ structure, competence and venue, status of the plaintiff and the defendant, filing the lawsuit, submissions exchange, the trial, investigation, oral trial and judgment. (in Turkish) Credit units: 3 ECTS Credit Units: 5, Aut (M. Atalı) Spr (Staff)

LAW 302  Civil Procedure II
The proof of claims, burden of proof, evidence, legal remedies, intermediate appeal and appeal procedures, arbitration. (in Turkish) Credit units: 3 ECTS Credit Units: 5, Prerequisite: LAW 301. Spr (M. Atalı)

LAW 303  Public International Law
This course offers a survey of a branch of law dealing with the normative factor of international relations the source of which are the international agreements and international customary law. Topics include also the jurisdictional aspects of international law and the settlement of disputes. (in Turkish) Credit units: 3 ECTS Credit Units: 5, Prerequisite: LAW 101 and LAW 104. Aut (S. H. Başer, K. Başlar)

LAW 304  Private International Law
A course offering an insight into the conflict of laws and international procedure law. (in Turkish) Credit units: 3 ECTS Credit Units: 4, Prerequisite: LAW 106 and LAW 202. Spr (G. Özpelik, B. Tiryakioğlu)

LAW 305  Civil Law III: Law of Property I
This course offers a study of possession and land register. (in Turkish) Credit units: 3 ECTS Credit Units: 5, Prerequisite: LAW 105. Aut (I. S. Çörtoğlu, Ş. B. Özpelik, A. L. Sirmen)
LAW 306  Civil Law III: Law of Property II
This course offers a study of ownership and limited real rights (servitudes, mortgage, pledge and land charges).
(in Turkish) Credit units: 3 ECTS Credit Units: 5, Prerequisite: LAW 305. Spr (İ. S. Çörtoğlu, Ş. Özcöl)k, A. L. Sirmen)

LAW 307  Commercial Law I
This course offers a comprehensive study of law of commercial enterprises. (in Turkish) Credit units: 3 ECTS Credit Units: 5, Prerequisite: LAW 202. Aut (S. Z. Aytac, A. E. Gürbüz Usuel) Spr (Staff)

LAW 308  Commercial Law II
This course deals with law of partnerships and corporations. (in Turkish) Credit units: 3 ECTS Credit Units: 4, Prerequisite: LAW 307. Spr (S. Z. Aytac, A. E. Gürbüz Usuel, M. Ç. Manavgat)

LAW 309  Law of Obligations (Special Part)
This course deals with certain types of classical agreements specifically regulated in Turkish Code of Obligations and various types of agreements a lawyer may face with in modern business life. (in Turkish) Credit units: 2 ECTS Credit Units: 3, Prerequisite: LAW 202. Aut (P Altınok Ormançı, Ş. B. Özlükl)k

LAW 313  Business Law
An introduction to the legal environment of business including contracts, negotiable instruments, organization, real and personal property. Emphasis is on fundamental legal principles, terminology and analysis of the legal process. Legal problems pertaining to contracts and related topics, business association and the impact of law on economic enterprise are reviewed. Credit units: 3 ECTS Credit Units: 6. Aut (H. C. Aksoy, F. A. Bayata Canyaş, C. Ünal) Spr (P Altınok Ormançı, F. A. Bayata Canyaş)

LAW 351  American Law of Contracts
After a general and historical introduction, the course will cover standard topics such as the concept of consideration as a basis for enforceability of promises, formation of the contract through offer and acceptance, interpretation of contracts, impossibility, breach of contract and remedies. The course will employ the case-study method, and, as a result, students will develop case-reading and understanding skills that should be useful for any further study of the law of common-law systems. Credit units: 2 ECTS Credit Units: 4, Prerequisite: (ENG 102 and LAW 202 and PHIL 243) or (ENG 102 and LAW 202 and ENG 241 and PHIL 241).

LAW 353  Environmental Law
A course offering a survey of the rules and regulations protecting the environment. (in Turkish) Credit units: 2 ECTS Credit Units: 4, Prerequisite: LAW 101 and LAW 104 and LAW 202 and LAW 206. Spr (İ. S. Çörtoğlu)

LAW 355  History of Turkish Law
Jewish legal system, a brief overlook to European legal history, basic principles of Islamic Law, Ottoman legal institutions and the Romanisation of Ottoman Law from Tanzimat to 1926. (in Turkish) Credit units: 2 ECTS Credit Units: 4, Prerequisite: LAW 101 and LAW 102.

LAW 357  Fundamental Concepts of Anglo-American Law
Anglo-American legal system in the global community; American legal profession; legal history of the Anglo American legal system; the common law tradition; legislative power; statutory interpretation; federalism; use of precedent/stare decisis; the adversary process and jury trials; Bill of Rights; selected topics (torts; contracts; corporations, etc.) Credit units: 2 ECTS Credit Units: 4, Prerequisite: (ENG 102 and PHIL 243) or (ENG 102 and ENG 241 and PHIL 241).

LAW 358  Criminal Law (Special Part)
Particular crimes as homicide, assault, sexual offences, theft and related offences, offences of damage to property, offences against constitutional and public order, public health, forgery. (in Turkish) Credit units: 2 ECTS Credit Units: 3, Prerequisite: LAW 204, Spr (T B. Karoğlu, S. Selçuk)

LAW 359  Comparative Private Law
A study and comparative analysis of various legal systems, focusing on the main features of private law. (in Turkish) Credit units: 2 ECTS Credit Units: 4, Prerequisite: LAW 101 and LAW 102 and LAW 202. Aut (H. Emiroğlu)

LAW 360  Public Finance
This course investigates government activities, taxing and spending. The emphasis of the course will be microeconomic of analysis of expenditure and taxing activities. It covers topics as public goods, political economy, and externalities. (in Turkish) Credit units: 2 ECTS Credit Units: 4, Prerequisite: ECON 103 and LAW 101 and LAW 206 and MATH 119. Spr (M. K. Mutlu炊)

LAW 365  Legal Philosophy
After focusing on the relationship between law, philosophy and science, the scope and subject of legal philosophy is going to be determined. Then, the doctrine of natural law -the oldest legal school- will be analysed in accordance with its Greek origin and contractualists, while evaluating the criticism against legal philosophy on ground of being metaphysical under modern epistemology. Lastly, the concept of legal justice, as the natural consequence of
LAW 366 Legal Sociology
Firstly, the sociological currents, which influenced and penetrated legal theory will be described as an introduction; while concentrating on the history and cultural reasoning of these currents, followed by a focus on the methodology and meaning of the sociological analysis of law, with references to the Introduction to Law course. Afterwards, the sources of law, which represent the biggest contribution of the sociological approach will be analysed, with a particular focus on the works of important scholars. Finally, reaching to a balanced sociological definition of law under the light of this information will be attempted. (in Turkish) Credit units: 2 ECTS Credit Units: 4, Prerequisite: (LAW 101 and PHIL 243) or (LAW 101 and ENG 241 and PHIL 241).

LAW 370 Comparative Constitutional Law
In this course lecture seminar, the historical development of the modern constitutional state which is the result of the European law tradition will be taken on a comparative basis. Thus the foundations of the modern constitutional state will be considered within the context of the theory of constitution in which main characteristics and functions of the nation-state will be explored. The jurisprudence of the Turkish Constitutional Court on specific topics is to be held on a comparative way with some European constitutional courts. The European Union as a new form of political organization is discussed regarding its new constitutional problems and questions. (in Turkish) Credit units: 2 ECTS Credit Units: 4, Prerequisite: LAW 101 and LAW 104.

LAW 374 Parliamentary Law
This course deals with the concept of parliament, and its historical background, formation of the legislative body. Unicameral or bicameral systems, electoral systems, size of the parliaments and the time between two elections will be examined. Particular attention will be given to Turkish Parliament, and its functions, legal statutes of members (i.e. representing the nation, parliamentary immunity, termination of membership) are dealt with. (in Turkish) Credit units: 2 ECTS Credit Units: 4, Prerequisite: LAW 104.

LAW 375 Turkish Constitutional History
In this course these subjects are dealt with: Constitutionalism in the Ottoman era; the Constitution of 1876 as the first Constitution of Ottoman Empire; the amendments of 1909 to the 1876 Constitution; the Constitution of 1921 during the War of Independence; the Constitution of 1924 as the first Constitution of the Turkish Republic after its foundation in 1923; some major amendments to the 1924 Constitution; the drafting process of the Constitution of 1961 and the characteristics of the Constitution; the amendments of 1971 to the 1961 Constitution; the drafting process of the Constitution of 1982 and the characteristics of the Constitution; some major amendments to the 1982 Constitution. (in Turkish) Credit units: 2 ECTS Credit Units: 4, Prerequisite: LAW 104. Spr (E. Onar)

LAW 376 Selected Topics in English Law
This course aims to introduce some basic concepts and terminology of English law. In this regard, firstly, origins of the Common Law system, its area of application and advantages and disadvantages of this system shall be evaluated and the law-making institutions, sources, precedent, acts of parliament and statutory instruments, the relationship between common law and statutory law and the rules of construction shall be covered. The court structure and the hierarchy of courts shall have an emphasis, concentrating on the competences of different courts in criminal and civil justice as well as the rules of civil and criminal procedure. The judiciary and the legal profession in England shall also be covered. English law of contracts shall be another part of the course where formation of contracts, essential elements of a valid contract, classification of contracts, discharge of contracts and remedies for breach are to be dealt with. Credit units: 2 ECTS Credit Units: 4, Prerequisite: (ENG 102 and PHIL 243) or (ENG 102 and ENG 241 and PHIL 241). Spr (G. Uygur)

LAW 381 Construction Law
Following topics shall be dealt within the scope of this course: Several types of construction contracts, rights and obligations of the parties, subcontracting issues. (in Turkish) Credit units: 2 ECTS Credit Units: 4, Prerequisite: LAW 101 and LAW 309.

LAW 382 Rental Law
Following topics shall be dealt within the scope of this course: Several types of rental agreements, rights and obligations of the parties, subcontracting issues. (in Turkish) Credit units: 2 ECTS Credit Units: 4, Prerequisite: LAW 101 and LAW 309.

LAW 383 Introduction to Law and Economics of Competition and Regulatory Policies
In this course, an overall introduction to main concepts and approaches to law and economics of competition law and policy together with regulatory policies will be provided. The material involved will be covered in a spectrum ranging from the discussion of conventionally regulated industries to financial regulation and environmental law on one hand, and ranging from the preliminary economic analysis of EU, US, and Turkish competition laws to merger control and state aid regulations on the other. Actual cases will also be examined throughout the
course, while the transaction cost approach will be the main framework for the analysis and evaluation of these
cases. Credit units: 2 ECTS Credit Units: 4, Prerequisite: ECON 103 and ENG 102 and LAW 101. Aut (H. B. Karabudak)

**LAW 384 Criminology**
The subject of the course is "criminology", which is a method of examining crimes and criminals as social
phenomena. Within the scope of the course, firstly, "criminology" is going to be defined as a concept with an
emphasis on its historical evolution under the schools of criminal law. Then, the objectives of criminology and
specific methods used for criminological analysis are going to be explained. Lastly, the course will focus on
evaluating research results regarding certain crimes and types of delinquents. Credit units: 2 ECTS Credit Units:
4, Prerequisite: LAW 203 and LAW 204. Spr (H. Toroslu)

**LAW 386 Law, Film and Literature**
There exist a very strong connection between law and its aestheticization through film, literature or other art
works. The course aims to broaden the intellectual perspective of law students through thematic and systematic
analysis of this relation. The students are expected to read the basic academic literature about the relationship
between law and art as well as to take part in class discussions while analyzing the selected films and novels on
law. Credit units: 2 ECTS Credit Units: 4. Spr (E. Güztepe Çelebi)

**LAW 401 Commercial Law III**
This course deals with the subjects of negotiable instruments law. (in Turkish) Credit units: 3 ECTS Credit Units:
5, Prerequisite: LAW 202. Aut (M. Ç. Manavgat)

**LAW 402 Commercial Law IV**
This course deals with the subjects of insurance law. (in Turkish) Credit units: 3 ECTS Credit Units: 5,
Prerequisite: LAW 202. Spr (Staff)

**LAW 403 Civil Law IV: Inheritance Law**
Intestate succession, testate succession, reserved portion. A course dealing with a branch of law which regulates
the passage of rights and debts of a person at his death. (in Turkish) Credit units: 3 ECTS Credit Units: 4,
Prerequisite: LAW 105. Aut (C. Köşhisarlioğlu)

**LAW 405 International Human Rights Law**
This course covers the general principles of international human rights law and deals especially with European
Human Rights Convention and with some selected decisions of European Court of Human Rights. The definition
of human rights, the basic mechanisms for enforcing human rights and the role of the political realities in promoting
human rights are some of the topics. Credit units: 3 ECTS Credit Units: 4. Spr (T. Akilloğlu)

**LAW 406 International Business Law**
A course dealing especially with international business transactions. Credit units: 3 ECTS Credit Units: 4,
Prerequisite: EN 102 and LAW 302 and LAW 308 and LAW 309. Spr (P. M. Patocchi)

**LAW 407 Tax Law**
This course comprises the principles of tax law, taxation process, income tax, corporation tax, value added tax,
real estate tax, inheritance tax, tax penalties, conflicts of taxation and some other taxes in the Turkish system.
(in Turkish) Credit units: 3 ECTS Credit Units: 3. Aut (M. K. Mutlu)

**LAW 408 Competition Law**
Competition law is the area of public law, which aims to enhance and preserve competitive conditions in markets.
The main subjects given in this course are anti-competitive agreements and concerted practices, cases of abuse
dominant position, mergers and acquisitions, procedural rules applied in competition law practice. (in Turkish)
Credit units: 2 ECTS Credit Units: 4, Prerequisite: ECON 103 and LAW 202 and LAW 206 and LAW 308. Spr
(G. Gürkaynak, O. B. Gürzum)

**LAW 409 Intellectual Property Law**
This course deals not only with copyright in a brief sense but also and especially with industrial property rights
which represent a special importance such as patents, trademarks, geographical indications, industrial designs
etc. (in Turkish) Credit units: 2 ECTS Credit Units: 3. Aut (T. B. Katılımalı, S. Seçilçuk) Spr (T. B. Katılımalı)

**LAW 410 Enforcement and Bankruptcy Law**
The organisation of execution office, court orders enforcement, forcing of payments of debts, order of payment,
objection, sequestration, forced sale, enforcement for negotiable instruments and bankruptcy. (in Turkish) Credit
units: 3 ECTS Credit Units: 5, Prerequisite: LAW 202 and LAW 302 and LAW 307. Spr (M. Özelkes)

**LAW 411 Criminal Procedure**
This course deals with criminal procedure involving jurisdiction, evidence, burden of proof, commencement and
conduct of proceedings, legal remedy (review). (in Turkish) Credit units: 3 ECTS Credit Units: 3. Aut (T. B.
Katılımalı, S. Seçilçuk) Spr (T. B. Katılımalı)
LAW 412 Labor Law I
The main subject matters of this course are introduction into the labour law, individual labour law, contracts of employment. (in Turkish) Credit units: 2 ECTS Credit Units: 4, Prerequisite: LAW 202. Aut (A. R. Işıl)

LAW 413 European Union Law
This course mainly deals with the institutional law of the European Union. The main subjects that are dealt with in the course are the historical evolution of the EU; the institutions of the EU, their rights, powers, duties, relationships between the legal systems of the EU and of the memberstates; the hierarchy of norms and the role of the individual. Credit units: 3 ECTS Credit Units: 3, Prerequisite: ENG 102 and LAW 101 and LAW 104 and LAW 105. Aut (G. Özcetik)

LAW 414 Labour Law II
First section of the course deals with collective agreements, second section covers collective labour disputes mediation, conciliation, arbitration as well as the law of strikes and lockouts. (in Turkish) Credit units: 2 ECTS Credit Units: 4, Prerequisite: LAW 412. Spr (A. R. Işıl)

LAW 415 Recognition and Enforcement of Foreign Arbitral Awards
Conditions of enforcement and the possible impediments (for instance, lack of a valid arbitration agreement, violation of parties’ defence rights, arbitrability, arbitrators’ excessive use of power) to enforcement will be scrutinized within the framework of comparative law and by means of practical questions and case studies. International conventions will be analysed and then the subject will be approached from the perspective of Turkish law. Credit units: 2 ECTS Credit Units: 4, Prerequisite: LAW 304. Aut (F. A. Bayata Canyay)

LAW 416 Introduction to Contract Law
Students will be acquainted with the role of contract law in business and economic activity. The course aims to teach students the principles that underlie the common law of contract and explain to students the effect of legislative intervention on the common law principles of contract law. Students will learn both the common law rules and legislation affecting contract law, as well as the ability to avoid contractual disputes and/or solve them. Credit units: 3 ECTS Credit Units: 6. Spr (H. C. Aksoy)

LAW 420 International Commercial Arbitration
This elective course deals with general procedural rules of international arbitration (such as the rules of International Chamber of Commerce). Credit units: 2 ECTS Credit Units: 4, Prerequisite: LAW 101 and LAW 202. Spr (Y. Ersoy)

LAW 423 Law of Capital Markets
This course deals with the rules and regulations being applied on the instruments and transactions in the capital market. (in Turkish) Credit units: 2 ECTS Credit Units: 4, Prerequisite: LAW 308. Aut (M. Ç. Manavgat)

LAW 424 EU Substantive Law
This course mainly deals with the law of the internal market. In this regard the primary and secondary sources regulating the free movement of persons, goods, capital and services are dealt with, with special emphasis on the decisions of the Court of Justice of the EU. Credit units: 2 ECTS Credit Units: 4, Prerequisite: (ENG 102 and LAW 413 and PHIL 243) or (ENG 102 and LAW 413 and ENG 241 and PHIL 241).

LAW 427 Citizenship and Foreigners Law
This course deals with law of citizenship and foreigners. Credit units: 2 ECTS Credit Units: 4, Prerequisite: LAW 101 and LAW 104 and LAW 206. Aut (B. Tiryakioğlu)

LAW 430 Financial Institutions Law
This course deals with an overview of the financial markets and financial instruments; economic and legal functions of financial institutions, regulatory approach to the financial institutions; financial institutions in EU law; categories and natures of the financial institutions; the public authorities like BRSA and CMB; comparative analysis of the financial institutions and main features of banks and securities firms. (in Turkish) Credit units: 2 ECTS Credit Units: 4, Prerequisite: LAW 308. Spr (M. Ç. Manavgat)

LAW 434 Budget Law
Budget law, mainly covers two sections referring to budget. The first section comprises history of budget, budgetary principals, the characteristics of a budget and budgetary systems etc, whereas the second part covers budget law, as well as the Turkish budget system, its preparation, its execution and its budget control in particular. Moreover, local government budget has been included in budget law. (in Turkish) Credit units: 2 ECTS Credit Units: 4, Prerequisite: LAW 104 and LAW 206. Spr (M. K. Mütuer)

LAW 441 Monetary Law
Contents of the lecture are: Monetary Law and its sources. The concept of money (economic and legal aspect of money, functions of money, types of money), monetary system (the establishment of monetary system, national monetary system, international monetary system), money market (financial market in general, money market, money market intermediaries and money market instruments), monetary obligations (national currency obligations, foreign currency obligations). Credit units: 2 ECTS Credit Units: 4, Prerequisite: LAW 101 and LAW 104 and LAW 202 and LAW 206. Aut (O. R. Güner)
LAW 443  Foreign Investment Law
Courses include both international and national dimensions of foreign investment law. At international level courses focus on following subjects: The principles of international law about foreign investments from colonial period to this century, international protection of investments, international regulations in the field of foreign investments, international safeguards for taking foreign property/investments, international standards for expropriation and nationalization of foreign investment and dispute settlement procedure in the field of foreign investments.

LAW 445  Advertising Law
Advertising regulations in the European Union, advertising under unfair competition law, consumer law and other laws in Turkey, misleading and comparative advertising, TV specific and product specific advertisement regulations, sanctions against unfair advertising and self-control mechanisms. (in Turkish) Credit units: 2 ECTS Credit Units: 4, Prerequisite: LAW 101 and LAW 206.

LAW 447  Moot Court I
The aim of the Moot Court Course is to help students to present a case, in a clear and convincing way, and to refute clearly and convincingly with good arguments, the case presented by the opposite party. The course is designed as a combination of tutorials and mooting. Course basically deals with the issues concerning International Commercial Arbitration. Credit units: 2 ECTS Credit Units: 2, Prerequisite: ENG 102 and LAW 101 and LAW 102 and LAW 104 and LAW 202 and LAW 204 and LAW 206 and LAW 216 and LAW 303 and LAW 413 and (PHIL 243 or (ENG 241 and PHIL 241)) and (PHIL 244 or (ENG 242 and PHIL 242)). Aut (Staff) Spr (Staff)

LAW 448  Moot Court II
The aim of the Moot Court Course is to help students to present a case, in a clear and convincing way, and to refute clearly and convincingly with good arguments, the case presented by the opposite party. The course is designed as a combination of tutorials and mooting. Course basically deals with the issues concerning International Commercial Arbitration. Credit units: 2 ECTS Credit Units: 2, Prerequisite: ENG 102 and LAW 101 and LAW 102 and LAW 104 and LAW 202 and LAW 204 and LAW 206 and LAW 216 and LAW 303 and LAW 413 and (PHIL 243 or (ENG 241 and PHIL 241)) and (PHIL 244 or (ENG 242 and PHIL 242)). Spr (Staff)

LAW 450  Introduction to Economic Analysis of Law
Most of lawyers’ activity is related to business; thus, understanding the economic justifications for the regulation of business, ranging from the principles of regulating natural monopolies to economic theory lying behind antitrust law becomes critically important for today’s lawyers. Property law - one of the most traditional of the courses in the legal curriculum- also now involves at least passing knowledge of economic concepts such as risk allocation and Coase theorem. Many other law school courses - such as banking and securities regulation, administrative law, competition law, environmental law, and others - contain significant elements of economic analysis. In this course, an overall introduction to law and economics approach will be provided, while the emphasis will be on law and economics of antitrust and regulation. Credit units: 2 ECTS Credit Units: 4, Prerequisite: ECON 103 and ENG 102 and LAW 101 and LAW 104 and LAW 105. Spr (H. B. Karabudak)

LAW 451  Moot Court III
The aim of the Moot Court Course is to help students to present a case, in a clear and convincing way, and to refute clearly and convincingly with good arguments, the case presented by the opposite party. The course is designed as a combination of tutorials and mooting. Course basically deals with the issues concerning International Commercial Arbitration. Credit units: 2 ECTS Credit Units: 4, Prerequisite: ENG 102 and LAW 101 and LAW 102 and LAW 104 and LAW 202 and LAW 204 and LAW 206 and LAW 216 and LAW 303 and LAW 413 and (PHIL 243 or (ENG 241 and PHIL 241)) and (PHIL 244 or (ENG 242 and PHIL 242)). Aut (Staff)

LAW 452  Moot Court IV
The aim of the Moot Court Course is to help students to present a case, in a clear and convincing way, and to refute clearly and convincingly with good arguments, the case presented by the opposite party. The course is designed as a combination of tutorials and mooting. Course basically deals with the issues concerning International Commercial Arbitration. Credit units: 2 ECTS Credit Units: 4, Prerequisite: ENG 102 and LAW 101 and LAW 102 and LAW 104 and LAW 202 and LAW 204 and LAW 206 and LAW 216 and LAW 303 and LAW 413 and (PHIL 243 or (ENG 241 and PHIL 241)) and (PHIL 244 or (ENG 242 and PHIL 242)). Spr (Staff)

LAW 454  Consumer Law
This course deals with the legal rules which have been specifically designed to protect consumers’ interest. Consumer protection as a public policy was first introduced by Article 172 of the 1982 Constitution which grants the State the authority to take all measures taken was the adoption of The Law on the Protection of the Consumer. With the Law on the Protection of the Consumer, a special body of law, characterised by a consistent policy and aimed at the protection of consumers’ interest was established. The course concentrates on the issues governed by the Law on the Protection of the Consumer, such as deficiencies in goods acquired and services provided, consumer contracts namely doorstep selling, installment sales, sales through campaigns, packet tours,
time sharing, distance contracts, consumer credits, consequently consumer information and consumer redress. (in Turkish) Credit units: 2 ECTS Credit Units: 4, Prerequisite: LAW 309. Aut (A. L. Sirmen) Spr (A. L. Sirmen)

**LAW 460 Legal Aspects of EU-Turkey Relations**
The relationships between Turkey and the European Union have a long history, dating back to the end of 1950s. Since then, the nature of this relationship as well as the place of Turkey in the EU have been frequently discussed. This course aims to concentrate on the legal aspects of this relationship: The historical background, Ankara Agreement of 1964 that establishes an association between Turkey and the EU, its characteristics, the institutions, Additional Protocol of 1973 and the decisions of the Association Council shall be first points of discussion. In this regard the most important decisions of the Court of Justice of the European Union on the position of Turkish nationals in the EU shall be deeply evaluated. Besides, accession negotiations shall be another major point of discussion, where the main documents of this process, such as the decisions of different European Council meetings and the progress reports on Turkey shall be assessed. (in Turkish) Credit units: 2 ECTS Credit Units: 4, Prerequisite: LAW 101 and LAW 303. Spr (G. Özçelik)

**LAW 463 Discharge From Liability in Joint Stock Companies**
This course will analyze the legal definition of discharge form liability, decisions that are given in the annual general meeting to grant discharge from liability to the board of directors, managing directors and legal consequences of discharge from liability in accordance with the new provisions of Turkish Commercial Code. (in Turkish) Credit units: 2 ECTS Credit Units: 4, Prerequisite: LAW 101 and LAW 202 and LAW 308.

**LAW 464 Judicial Organization and Law of Service of Process**
In this course, judicial organizations of Turkish Republic according to 1982 Constitution will be explained and analyzed. Then, under the jurisdictional procedure, law on service of process and legal notification to the interested parties will be explained. Turkish Act on Service of Process will be dealt in this perspective. Credit units: 2 ECTS Credit Units: 4, Prerequisite: LAW 206. Aut (M. Atalı)

**LAW 465 Settlement of Energy Investment Disputes**
The main focus of the Course is the settlement of disputes arising out of energy investments between foreign investors and host states. In this context, characteristics of energy investments and Energy Charter Treaty and other international regulations regarding to energy investments will be analyzed. Different mechanisms provided for settlement of energy disputes will be covered by the course. The settlement of Energy disputes by way of arbitration before institutional arbitration organizations (ICSID, ICC, SCC etc) will be explained. The course includes case study on arbitration awards regarding to energy disputes. Credit units: 2 ECTS Credit Units: 4, Prerequisite: LAW 101 and LAW 206. Aut (B. Tiryakioğlu)

**LAW 467 International Family Law**
International family law disputes may include different questions of private international law; such as determination of applicable law, jurisdiction of Turkish Courts and recognition and enforcement of foreign judgments by Turkish courts. The course aims to analyse such questions as regards marriage, custody, maintenance, divorce and legal separation. The decisions of Turkish Courts as well as the international agreements on these topics to which Turkey is a party will have a special emphasis. Credit units: 2 ECTS Credit Units: 4, Prerequisite: LAW 106 and LAW 304. Spr (G. Özçelik)

**LAW 468 Legal and Administrative Aspects of Privatization**
This course aims to examine the legal and administrative bases of privatization of public enterprises and services. Legal problems resulting from such processes and practices will also be discussed through the judicial cases. Credit units: 2 ECTS Credit Units: 4, Prerequisite: ECON 103 and LAW 104 and LAW 206. Spr (T. Tan)

**LAW 469 Humanitarian Law**
The main concern of International Law has been the preservation of peace, yet instead of its abolition, it succeeded in its containment. The International Humanitarian Law (ius ad bellum and ius in bello) evolved through the ages, and in our day it sets out rules and regulations concerning the declaration of war, who and what will be safeguarded during an armed conflict (war), or whether there are any arms, bombs, chemicals or equipment which are prohibited from being employed during an armed conflict. This lex lata needs to be revisited, including the concepts of federalism, limited jurisdiction, judicial review, separation of powers, religious freedom,
and individual rights. It will examine key moments of constitutional jurisprudence from the origins of the American republic until the present, and will introduce students to peculiar features of American law, including adversarial legalism and the use of case law. Credit units: 2 ECTS Credit Units: 4, Prerequisite: ENG 102 and LAW 104. Spr (Staff)

LAW 491 Selected Topics in Turkish Law I
Common law and statutes relating to business with special reference to contract law and sale of goods; the law relating to business organizations, and other areas of law relevant to commerce including banker and customer, hire purchase insurance and bankruptcy; the industrial law, the law concerning the contract of employment; trade unions; Legal aspects of international trade; the process and function of governmental regulation of free enterprise. (Course open for students of the Faculty of Economics, Administrative, and Social Sciences) (in Turkish) Credit units: 3 ECTS Credit Units: 4.

LAW 492 Selected Topics in Turkish Law II
Regulation and de-regulation, financial markets and globalization of business. Access to world markets and related regulations. (Course open for students of the Faculty of Economics, Administrative and Social Sciences) (in Turkish) Credit units: 3 ECTS Credit Units: 4.

GRADUATE COURSES

LAW 501 Economic Analysis of Law
Economic analysis of law (or the doctrine of law and economics) is in today's world considered the most influential thought in foreign legal systems. This course aims to introduce this legal thought to students and to explain how it is to be applied in some basic fields of Turkish Law. Economic analysis of law can be defined as the application of economic theory (theories of behaviour) to the legal rules and institutions. In this context, some basic terminology like rational choice theory, economic efficiency, social welfare and Coase theorem will be explained in the first part of the course. In the second part, the method of economic analysis will be applied in criminal law, laws of corporal property, contracts, consumer protection and mainly torts. The course language is English. Credit units: 3 ECTS Credit Units: 6. Aut (Staff)

LAW 503 Economics of Competition
Competition law regulates the economic activities; but the operation of competition law has important differences from what is traditionally called legal regulation or regulation. The regulation has a nature peculiar to industry. Direct and regular determination of prices is related with product standards or barriers to entry to - exit from the market. Competition law, on the other hand, has application that covers the whole economy. It focuses on certain fundamental rules that aim good and efficient solutions for the society by enabling competitive interaction among firms. Interventions of authorities and proceedings, which may come into question in case of violation of these fundamental competition rules, are exceptional in nature. The main goal of this course is to introduce the theoretical approaches and basic techniques of economic analysis to graduate students in Turkey, where subjects of competition law and policy have developed parallel to the progressions in EU. The course language is English. Credit units: 3 ECTS Credit Units: 6. Aut (H. B. Karabudak)

LAW 504 Competition Law
Main theme of this course is substantive competition law concerning the related topics of public and private law. Thus, conditions for an act of an undertaking to become subject of administrative and private law sanctions because of being in violation of competition law will be elaborated. Decisions of Turkish Competition Authority, Turkish Council of State, European Union Commission, European Court of Justice and, as far as sufficient, American Supreme Court are to be discussed. While examining the consequences of competition breaches in private law related decisions of Turkish Court of Cassation and foreign supreme courts will also be considered. The adequateness of the sanctions with regard to competition economy and policy and the relationship between competition law and economic regulation are other important subjects of the course. Credit units: 3 ECTS Credit Units: 5. Spr (G. Gürkaynak, O. B. Gürzum)

LAW 505 Economic Regulation and Law
This course has four main parts: In the first part, information about basic pricing theory will be given and the essential terminology that is going to be used in the other parts will be explained. In the second part, traditional approaches in regulation law, which focus on the relationship between market defects and regulation, will come into question. In the third part, it will be examined together with the results of positive regulation theory how the relationship between regulation and political processes forms the law of regulation. In the fourth part, the methods of application of regulation in related markets will be analysed. The course language is English. Credit units: 3 ECTS Credit Units: 6. Aut (Ş. Andiyok)

LAW 506 Energy Law and Policy
In this course, legal aspects of Electricity, Natural Gas, Petroleum and LPG services and activities as the main research topics of the energy sector and the powers of Turkish Energy Market Regulatory Authority (EMRA) are going to be studied. In this context, for each sector licence, tariff and monitoring mechanisms will be examined. The differences between current legal statuses arose within new regulations and the previous regulations and
legal problems of the transition period going are to be assessed. Thereto relevant decisions of EMRA and current situation of competition complications within the energy sector will be analysed from a legal perspective. Credit units: 3 ECTS Credit Units: 5. Spr (S. Ardöyok)

LAW 507 Public Economic Law
In this course, the characteristics and sources of ‘public economic law’ that can be briefly defined as the law of the state intervention in the economy will be examined. In the second part of the course, the fundamental principles of public economic law, like right to property, freedom of enterprise and rule of law will be explained. In the third part, public organisation in the economy area will come into question. In the fourth part the public law framework of the market economy as well as the transition period from interventionist state to regulatory state (incentive granting state) will be examined. Main subjects of the fifth part are the privatisation of public economic enterprises, the legal mechanisms of public-private partnership in public services and the regulation of sectors. Credit units: 3 ECTS Credit Units: 6. Aut (T. Tan)

LAW 508 Telecommunications Law
This course is composed of two parts. Topics that are going to be studied in the first part are: (i) Basic terms and concepts of telecommunications, history of telecommunications law and economic substances of telecommunications regulations, (ii) Comparative study of European Union Communications Law and Turkish telecommunications regulations especially about access and interconnection, universal service obligations and privacy, (iii) Intercourse of telecommunications law and regulations with other codes and especially the competition law, (iv) Attitudes in Turkish and European Union regulations and basics of Turkish telecommunications regulation in the context of telecommunications law’s future. In the second part, legal framework of access and interconnection arrangements is going to be examined. Credit units: 3 ECTS Credit Units: 5. Spr (H. B. Karabudak)

LAW 509 Term Project
Term project is a non-credit program activity stipulated by the Regulation for Graduate Education of the Council of Higher Education for the post-graduate programs with no thesis. The students are required to be successful at the term project in order to obtain the Diploma. Within this activity, the students should accomplish a research project, internship and a similar assignment under the supervision of an academic instructor and submit their projects in the form of a written report or a research document to the related academic instructor. Subject of the project: It should be related to one of the first-term courses. The project supervisor can be any of the academic instructors lecturing at the program. Credit units: None ECTS Credit Units: None. Aut (Staff) Spr (Staff)

LAW 510 Banking Regulation Law
Banks have a major importance in the economics of a country. Fulfilling the functions of the banks, especially accepting small amounts of money for deposit and directing this source towards credits for the development of the country, is very crucial for economic welfare. Profitable functioning of banking services depends on the regulation of this sector by an independent regulatory agency. This task lies within the responsibility of Banking Regulation and Supervision Agency (BRSA) in Turkey. BRSA is an independent regulatory agency, of recent date, given extensive supervision powers of banking services performs its duties within the terms of Banking Law. Legal grounds of the powers of BRSA, how these powers should be exerted and their legal consequences are going to be examined in this course. Credit units: 3 ECTS Credit Units: 5. Spr (E. Kuntalp)

LAW 520 Capital Markets and Market Abuse
In this course, first market and price formation mechanisms, then breaches in these mechanisms, insider trading and manipulation acts are going to be examined under the heading “Abuse of Capital Markets and Regulation Approach”. Subsequently transition to the market oriented approach and the principles of the EU Directive No. 2003/6 and its regulation approach are going to be analysed. Price formation mechanisms should be introduced in the survey of market-oriented approach. At this point, financial theories of efficient markets and conduct explaining price formation mechanisms in legal and financial terms are going to be studied and the term abuse of the market is going to be outlined. All in all, sanctions applied in case of abuse of the market are going to be examined market oriented and appropriateness of these sanctions is going to be discussed in accordance with criminal and legal liability. Credit units: 3 ECTS Credit Units: 4. Spr (M. Ç. Manavgat)

LAW 526 Negotiation of Flexibility
This course discusses the extent to which the labour market is becoming more flexible, as well as the role which collective bargaining is playing, or can’t play, in the process of introducing this flexibility in its widest meaning including bipartite and tripartite negotiations at the national, sectoral, enterprise and shop-floor levels. Main topics of the course are: Types of flexibility (pay, working time and work organization flexibility); means of flexibility (legislation, collective bargaining, contracts of employment, employers’ unilateral action); the role of the state and the bargaining structure; the position of the social partners; outcomes of negotiations over flexibility; some basic issues concerning trade-offs in flexibility bargaining at the central, sectoral and enterprise levels; over job security; redundancy alternatives, working-time and workers’ life styles; shorter hours to expand employment. The course language is English. Credit units: 3 ECTS Credit Units: 4.
LAW 530  Unfair Competition  
Regulation of the unfair competition in the European Union, in Switzerland, in Germany and in Turkey; relation to the other right zone, especially to the competition law and law of the intellectual property; faithfully and belief; confusion, protection of know-how and against the abuse of fabrication secrets or business secrets; non-observance of work conditions; special cases of the unfair competition through advertising, sponsorship; sanction in the right of the unfair competition and consumer right.  
Credit units: 3 ECTS Credit Units: 4.

LAW 532  Current Issues in Economics of Antitrust and Regulation  
Regulation of unfair competition in the European Union, Switzerland, Germany and Turkey; relationship with other branches of law, particularly with competition law and intellectual property law; principle of honesty; dilusion, protection of know-how and trade secrets; specific cases of unfair competition through advertising and non-compliance to work conditions; sponsorship; sanctions under unfair competition law and consumer law.  
Credit units: 3 ECTS Credit Units: 4.

LAW 536  Law and Economics of Media: an Antitrust Perspective  
Media industries, incorporating double sided markets and having different structure of marginal costs based on information, differ from the markets described in classical economic theory. Likewise, entry into broadcasting markets and ownership are regulated since television and radio frequencies are scare resources, and the industry has an important role for the freedom of speech and affecting public opinion. The subject of this course is to analyze the law and economics of media industries from an antitrust perspective; and after an introduction to the economics of media, regulation of the industry and application of antitrust rules in three different jurisdictions, namely Turkey, the US, the EU will be studied comparatively.  
Credit units: 3 ECTS Credit Units: 4.

LAW 538  Internet: Law, Economics and Policy  
This course provides students with a basic understanding of the regulatory environment in which online communities operate. We also discuss political economy of Internet. The course examines regulations, procedures, court decisions and policies as they apply to creating, maintaining, servicing and dismantling online communities from an economic perspective. The course will follow the law and economics approach to connect law, economics and politics of Internet. Key topics of the course are: a brief outline of Internet law, net neutrality debate, free speech, domain name system, internet privacy, regulation of internet, economics aspects of jurisdictional regulation of unwanted content (spam, IP infringement etc.), Internet torts, hacking, copyright issues and social networking.  
Credit units: 3 ECTS Credit Units: 4.

LAW 540  Real Estate Market Law  
Rights the subject of which are real estate, the use of real estate as a finance instrument, real estate financing, lien and housing finance institutions and funds as providers of such, real estate investment companies and asset lease companies together with mortgage backed and guaranteed securities, lease and real estate certificates will be discussed in this course.  
Credit units: 3 ECTS Credit Units: 4.

LAW 542  EU and Turkish Public Procurement Law  
Public procurement accounts for around 16% of EU GDP. Having given the introduction, basic principles and concepts to public procurement regulation in EU law and in Turkish law we will check the tendering procedures in EU and in Turkish law and the remedies at both system. This course in the Programme will contribute to the recognition of the growing importance of legal regulation in controlling public procurement in both system. Students will also acquire the regime governing public-private partnership projects which requires huge amount of money used for particularly, the construction of roads, highways, railways and airports, electric powers, water transport, waste management and water distribution in the EU (for instance the construction of the Stad de France, maintenance project of London underground (metro) etc.) and in Turkey (for instance, the method used in the construction of international terminal of Sabiha Gökçen Airport, Erenboğa Airport in Ankara and the planned 3rd bridge project in the Bosphorus in Istanbul, and numerous forthcoming projects involving great expense etc).  
Credit units: 2 ECTS Credit Units: 4.

LAW 544  The Legal Framework of Social Dialogue  
Social dialogue, the “making” of EU Labour Law. The need for EU initiatives on social issues: European social dialogue: core concepts and mechanisms; structural and functional legal analysis. Rights to share information, to be consulted, to decide jointly, to produce joint opinions. Tripartite and bipartite platforms for dialogue.  
Credit units: 3 ECTS Credit Units: 6.

LAW 601  Civil Law (Real Securities)  
This course deals with the securities which create rights in rem. A security is a resource which a creditor is furnished with to use in case of debtor’s failure in his obligation. Securities can be classified in terms of the rights created thereby as personal securities and real securities. Personal securities create rights in personam which can be asserted only against persons who have given the securities. Unlike personal securities, real securities create rights in rem which can be asserted against third person. If the debtor fails to fulfil his obligation, the creditor whose debt has been assured by a real security can request from the competent execution office a foreclosure whereby the property charged is sold in satisfaction of this debt. Since, the creditor takes priority to exercise his right to the exclusion of other ordinary claims in this procedure, real securities are accepted as very effective in use especially in the banking law. This course is concerned with the legal provisions regarding the
creation, the effects and the termination of real securities over immovable and movable property as well as the relevant judicial practice. Credit units: 3 ECTS Credit Units: 6. Spr (A. L. Sirmen)

LAW 602 Constitutional Law
In this course judicial review of the constitutionality of legislation in Turkey is dealt with. Following topics will be examined: Judicial review of the constitutionality of legislation in Turkey; historical background; Turkish Constitutional Court as a centralized review; review proceedings; direct access - indirect access; effects of the decisions of the Constitutional Court; some examples of important decisions of Turkish Constitutional Court; individual access to the Constitutional Court. Credit units: 3 ECTS Credit Units: 6.

LAW 603 Invalidity and Violation Actions in Law of Trademarks
Topics such as Signs suitable for registration as trademarks, grounds for refusal of registration and their types; grounds and legal consequences of invalidity decisions; rights conferred by a trademark, sanctions against violation of those rights shall be assessed taking the provisions of the EU Directives as well as the legislation of Germany, Switzerland and Turkey into consideration from a comparative perspective. Credit units: 3 ECTS Credit Units: 6.

LAW 604 Administrative Law II
Basic principles of judicial review of administration will be examined in a comparative way since Turkish system of administrative jurisdiction stems from the French system. Recent changes and approaches in administrative jurisdiction will be analyzed. In this context, limits of administrative jurisdiction, suggestions on extra judicial resolution of administrative disputes, injunctions in civil jurisdiction similarly applied to administrative jurisdiction, and also incline to civil jurisdiction from administrative jurisdiction will be examined in the light of the Constitution as well as the jurisprudence of Constitutional Court and Tribunal of Conflicts. Liability of Turkish administration and its agents shall also be analyzed as one of the remarkable topics of administrative jurisdiction. Credit units: 3 ECTS Credit Units: 6.

LAW 605 Constitutional Judiciary
In this course judicial review of the constitutionality of legislation is dealt with. Following topics will be examined: Concept of constitution, and classification of it: Written-unwritten, and rigid-flexible constitutions; hierarchy of laws; types of judicial review: Centralized or decentralized ?; access to centralized judicial review: Preventive control or repressive control ?; decisions: “Inter partes” or “erga omne”, “ex tunc” or “ex nunc” ? Credit units: 3 ECTS Credit Units: 6. Aut (E. Güztepe Çelebi)

LAW 606 Fiscal Law
Fiscal Law deals with public revenue and expenditure as well as the matters regarding their equalisation. According to this definition, Fiscal Law is composed of two main parts. The first part includes legal analysis of public revenue. Since public revenue is made up of mainly tax revenues, this part is also called Tax Law. The second part includes the legislation on expenditure. Legislation on expenditure is inseparable with legislation on budget. In this respect legal analysis of expenditure and budget may be called as Budget Law. Tax Law and Budget Law are also divided into certain parts within themselves. In the Course of Fiscal Law in the PhD program the topics such as law of taxation, taxation procedure, taxation enforcement, taxes in the general tax system, the principles and implementation of budget and monitoring of expenditures shall be assessed from a legal and fiscal point of view. Credit units: 3 ECTS Credit Units: 6.

LAW 607 Administrative Law I
Privatization will be analyzed as transferring ownership of public enterprises from public sector to private sector and providing public services by private sector via different models including public-private partnership methods such as Build-Operate-Transfer and Transfer of Operational Rights. After examining legal and administrative infrastructure, judicial review on privatization by the Constitutional Court and the Council of State will be discussed. The governance structure of the energy sector had changes in Turkey by mid-1980s. Turkey as many developing countries, started enabling the private sector to participate in the energy industry. In this context the regulation of energy sector will be examined as a consequence of liberalization due to European Union process. Credit units: 3 ECTS Credit Units: 6.

LAW 608 Servitudes and Competition Law
After a general introduction on the servitudes regulated in the Civil Code the following main questions will be discussed: What are the legal consequences of registration of servitudes which violate the substantive rules of competition law? Are restrictions enjoying the principle of rule of reason or any exemption allowed to be registered and constituted as servitudes within the framework of Civil Code? Credit units: 3 ECTS Credit Units: 6.

LAW 609 Criminal Law
Different aspects and current problems of criminal law will be elaborated in this course. Problems concerning sources and application of the criminal laws; current debates on the general theory of crime such as different opinions concerning actus reus, mens rea and defences, mistake and ignorance of the laws shall be covered. Credit units: 3 ECTS Credit Units: 6.
LAW 610  ICSID Arbitration
During the courses, the fundamental characteristics of foreign direct investments and ICSID arbitration will be discussed with respect to international investment law. The conditions which are required by the ICSID Convention in order to bring a dispute before ICSID will be the main focus in this respect. The settlement of state-investor disputes will be analyzed in terms of actual ICSID arbitration awards. Each student is supposed to analyze an award on jurisdiction rendered by an ICSID tribunal and to file a request for arbitration and to prepare a response thereto for a fictional dispute arising out of investments between a state and an investor. Credit units: 3 ECTS Credit Units: 6. Aut (B. Tiryakioğlu)

LAW 611  Environmental Liability Law
This course primarily deals with the applicable rules of liability arising from violations of provisions regarding the enjoyment of ownership right and relevant restrictions set forth by the general legislation on environmental protection. Polluter's liability provided by the Environment Law will be particularly focused on and a comparative analysis on the provisions and conditions of this liability will be made under the light of the latest developments in liability law and the economic impacts of liability. Credit units: 3 ECTS Credit Units: 6.

LAW 612  Bound Enterprises Law (Company Groups Law)
Enterprise or Company Groups Law, which will be regulated in Turkish Law for the first time with the new Turkish Commercial Code, raises number of issues and challenges. This subject has been provided firstly in German law under a special provision and in the course of time has also been regulated in other EU countries and became subject to important directives in European Union Law. Until now the problems are tried to be solved according to general provisions and judicial decisions in Turkish Law, however sufficient and generally accepted results could not be achieved. In the context of the course, main concepts such as domination-dependency, contracts between group companies, private position and protection of shareholders, supervision and disclosure to public and liability shall be dealt with. Since the provisions are enacted as a general framework, they shall undoubtedly require interpretation and improvement by doctrine and judicial decisions, as well as theoretical discussions. The course shall require a sufficient knowledge of Company Law. Credit units: 3 ECTS Credit Units: 6.

LAW 613  ECHR Law
European Convention on Human Rights and Turkish domestic law; Characteristics of the European Convention on Human Rights and its organs; Classification and Effects of the Decisions of the European Court of Human Rights regarding Turkey; Effects of the decisions on Turkish domestic law; Situations that are faced in practice; Matters that should be dealt with in Turkish domestic Law. Credit units: 3 ECTS Credit Units: 6. Spr (T. Akbilioglu)

LAW 615  Doctrine of Innominate Contracts
This course shall cover issues including how could the gaps in innominate contracts, which are established on the principle of freedom of contract in our Law of Obligations, be filled because of their being unregulated; whether there is a possibility of using the legislative provisions on nominate contracts as a tool in filling the gaps in innominate contracts; and since the solution of this problem significantly connected with "typus" regulation, the characteristics of the "typus" will also be explained. Credit units: 3 ECTS Credit Units: 6.

LAW 616  Criminal Procedure
Subjects, parties, procedural principles, law of evidence, measures concerning the pre-trial and trial criminal process will be within the framework of this course. Current problems arising from criminal law practice and criminal procedure will be elaborated. Particularly, measures in criminal procedure, custody practice and problem of illegally obtained evidences are among the main topics of discussion. Credit units: 3 ECTS Credit Units: 6.

LAW 617  General Methodology of Private Law
This course aims to give information on the methodological approaches regarding formation of law, sources, interpretation, filling the gaps in law, way of thinking in law, reasoning in law, legal logic, legal tools, techniques in law; rational implementation of law; fundamental rules of law; general principles of law, systematic of law, comparative law, preparation of scientific work and in this regard scientific research methods and principles, writing seminars, articles, thesis, legal writings and assessment of judicial decisions and preparation of record cards regarding these as well as to give the opportunity to students for the preparation and presentation of papers. Credit units: 3 ECTS Credit Units: 6.

LAW 618  Social Law
This course gives an overview and deals with the background and sources of collective labour law and social policy. A brief history of collective labour law, emergence of traditional labour institutions trade unions, collective agreements, labour disputes, strikes. Increase and decrease in density of union membership, economics and human rights perspectives on labour laws and emergence of new labour instruments: social dialogue, participation, flexibility, new forms of employment contracts, job security. New Labour Law, Discrimination Law, Social Law. Credit units: 3 ECTS Credit Units: 6. Aut (A. R. Işlk)

LAW 619  Comparative Constitutional Law
The classical topics of constitutional law within singular nation-states like sovereignty, the rule of law or structural models of the state organization have been changed rapidly in the last decades. In this course, the historical development of the modern constitutional state which is the result of the European law tradition will be taken on a comparative basis into consideration. Thus the foundations of the modern constitutional state will be
considered within the context of the theory of constitution in which main characteristics and functions of the nation-state will be explored. The jurisprudence of the Turkish Constitutional Court on specific topics is to be covered on a comparative way with the Turkish and English written academic literature, decisions of some European constitutional courts and the jurisprudence of the European Court of Human Rights. Furthermore, the European Union as a new form of political organization is discussed regarding its new constitutional problems and questions. The seminar is structured as a lecture seminar. The students have to read weekly one or two articles on each selected topic in the Syllabus and have to write a one-page abstract on each of these articles (the average of the grades given to the abstracts will be the result of the midterm exam). The final exam will be a take-home which should be a 15-20 pages paper on a selected topic within the lecture. Credit units: 3 ECTS Credit Units: 6.

LAW 620 Philosophy of Law and Sociology of Law
The course covers a number of central topics in the philosophy of law and sociology of law: the concept of law, what are its purposes and justifications? The meaning of law in human life and the relationship between law and society. In what senses is law found or made, positive or natural, instrumental or moral, objective or subjective, neutral or political? Readings include the works of important philosophers such as H.L.A. Hart, Ronald Dworkin, John Rawls. Credit units: 3 ECTS Credit Units: 6.

LAW 621 Alternative Dispute Resolution
This course aims to examine the means of settling legal and commercial disputes by alternative dispute resolution without recourse to a trial. Two main methods of settling disputes by way of trial are state's judiciary and arbitration. However, there also exist various methods of alternative dispute resolution without a trial, some of which have gained importance recently. Some of these methods are already regulated in our legal system whereas some others are at the stage of proposal. In this course firstly general and theoretical framework of the main methods of alternative dispute resolution in civil judiciary shall be dealt with, then the ones that provided and proposed shall be assessed. Credit units: 3 ECTS Credit Units: 6.

LAW 622 Preservation of Assets in Corporations
The assets of a joint-stock company constitute a guarantee for its creditors and the shareholders have rights on these assets. The Turkish Commercial Code contains special provisions aimed at preserving assets. The relationship between the capital and assets of a joint-stock company will be determined under title "Preservation of Assets in a Joint-Stock Company" which will be followed by an integrated analyses of measures aimed at preserving assets. Credit units: 3 ECTS Credit Units: 6.

LAW 623 Lex Mercatoria
Lex Mercatoria is the Latin expression used for trading principles applied by merchants throughout Europe in medieval times, meaning literally “Merchant Law”. It evolved as a system of custom and best practice which was enforced through a system of merchant courts along the main trade routes. It functioned as the international law of commerce. Lex Mercatoria is sometimes applied in international disputes between commercial entities. Mostly those disputes are decided by arbitrators who sometimes are allowed (explicitly or impliedly) to apply lex mercatoria principles. Therefore, some legal practitioners assume that there is a whole set of legal principles named “Lex Mercatoria” in international or transnational commercial law. Credit units: 3 ECTS Credit Units: 6. Spr (H. Emiroğlu)

LAW 624 International Procedure
The course covers a number of central topics in the philosophy of law and sociology of law: the concept of law, what are its purposes and justifications? The meaning of law in human life and the relationship between law and society. In what senses is law found or made, positive or natural, instrumental or moral, objective or subjective, neutral or political? Readings include the works of important philosophers such as H.L.A. Hart, Ronald Dworkin, John Rawls. Credit units: 3 ECTS Credit Units: 6.

LAW 625 Legal Liability of Members of Board of Directors in Joint Stock Companies
Organizational structure of incorporated company and in particular formation of board of directors, acquisition of membership, resignation from membership, rights and obligations of members, decision making process, legal effects of decisions, delegation and liability, conditions of liability, business judgment rule, compliance, capacity to sue, delegation of competence regarding administration and representation, differentiated solidarity, and the grounds that cease the responsibility will be covered. Credit units: 3 ECTS Credit Units: 6. Aut (H. Pınar)

LAW 628 Trade Secret Protection Particularly in Joint Stock Companies
This course is designed to introduce post graduate students to the term trade secrets. The aim of this course is to highlight challenges that companies face due to the lack of regulations governing trade secret protection and to make a comparative analysis between Turkish law and other legal systems concerning protection of trade secrets. Course focuses on definition, legal nature of trade secrets and protection of trade secrets particularly in joint stock companies. Credit units: 3 ECTS Credit Units: 6.

LAW 630 Citizenship and Individual Rights in EU
This course aims to cover the concept of "EU Citizenship", current EU legislation on the rights of the EU citizens as well as the position of third country nationals in the EU. In the first part of the course the provisions of the
Founding Treaties regarding the EU citizenship, the secondary EU legislation regarding the rights of the EU Citizens and their family members shall be discussed. Second part of the course shall be on the status of the third country nationals residing legally in the EU with an emphasis on Article 79 of the Treaty on the Functioning of the EU on immigration policy as well as on the Directive 2003/69 on Family Unification, Directive 2003/109 on the Status of Third Country Nationals who are Long Term Residents in the EU, Directive 2009/50 on Blue Card. Last subject to be covered in the course is the Status of Turkish Citizens within the EU. In this regard, the rights of the Turkish citizens arising from the Ankara Agreement, Additional Protocol and the Decisions of Association Council shall be discussed. The decisions of the Court of Justice of the EU shall have a special emphasis in the course. Credit units: 3 ECTS Credit Units: 6.

LAW 632 Legal Acts (Transactions) Theory
This course is designed to introduce students to an advanced study of law of contracts. The Turkish Code of Obligations distinguishes three sources of obligations, contracts, torts and unjust enrichment. By referring to ‘contracts’ Turkish Code of Obligations, as the Swiss Code of Obligations differs from the German Civil Code which has its starting point in an abstract notion of ‘legal acts’. However, contracts are also legal acts which embrace all situations created by the mutual intentions of persons. Therefore, the course will first focus on the theoretical analysis of legal acts and then deal with the formation, legality and interpretation of contracts which are governed by the law of obligations. Credit units: 3 ECTS Credit Units: 6.

LAW 634 Methodology of Law and Research Methods
The course for young academicians pursues three aims: To learn the research sources in general and specifically for law; the categorization of the acquired material and its main principles; and lastly, to practice the methodology of law in terms of writing short research papers which will be discussed in class. Credit units: None ECTS Credit Units: None. Aut (H. Emiroğlu)

LAW 636 Comparative Law: Foundations of Western Legal Thought
This course introduces students to the central conceptual developments related to law in the Western legal tradition. Materials for the course will span from the dissolution of the Roman Empire and legacy of Roman law to the emergence of the great positive law traditions of medieval and modern Europe; i.e., the common law of England and the Roman-canonical tradition of the European continent. It will examine the great moments of legal reform and codification in Europe and the United States, and will touch on selected issue of private and public law. Credit units: 3 ECTS Credit Units: 6. Spr (Staff)

LAW 680 Seminar on Current Issues in Private Law
This seminar course deals with current issues and new developments in private law from a theoretical and comparative perspective. Each semester a different subject related to civil law, commercial law or civil procedure will be chosen and the specific content of the course will be determined by the instructors. The students are expected to write a seminar paper and present it in the class. Credit units: 3 ECTS Credit Units: 6. Spr (S. Gale Wintermuth)

LAW 681 Seminar on Selected Topics in Private Law
This seminar course aims to examine some material topics on various fields of private law. Every semester a different subject related to civil law, commercial law or civil procedure will be chosen and the specific content of the course will be determined by the instructors. The students are required to write a seminar paper and present it in the class. Credit units: 3 ECTS Credit Units: 6. Aut (P. Gottwald)

LAW 682 Seminar on Current Issues in Public Law
This seminar course deals with current issues and new developments in public law from a theoretical and comparative perspective. Each semester a different subject related to constitutional, administrative or criminal law will be chosen and the specific content of the course will be determined by the instructors. The students are expected to write a seminar paper and present it in the class. Credit units: 3 ECTS Credit Units: 6. Spr (Staff)

LAW 683 Seminar on Selected Topics in Public Law
This seminar course aims to examine some material topics on various fields of public law. Every semester a different subject related to constitutional, administrative or criminal law will be chosen and the specific content of the course will be determined by the instructors. The students are required to write a seminar paper and present it in the class. Credit units: 3 ECTS Credit Units: 6. Aut (T. B. Katoloğlu)

LAW 699 PH. D. Dissertation
Credit units: None ECTS Credit Units: None. Aut (Staff) Spr (Staff)
FACULTY OF MUSIC AND PERFORMING ARTS

İşın Metin, Ph.D., Assoc. Dean
Kağan Korad, Assoc. Dean

The Faculty of Music and Performing Arts comprises two academic departments:

- Music
- Performing Arts

Bilkent University Faculty of Music and Performing Arts was founded in 1986 as one of the first three faculties of the University. With the exception of the state conservatories, it is the first faculty in Turkey offering higher education in the fields of music and performing arts.

The Music Department of the Faculty offers training in most artistic fields, including composition, piano, string and wind instruments, as well as opera and rhythmic music. The Theater department offers programs in acting, directing and opera directing.

The Faculty aims to train artists who are creators, interpreters, educators and researchers in their respective fields, to take part in and contribute to international events and to provide an environment for creativity, interpretational excellence and research.

A pioneer in its work methods in Turkey, the Faculty of Music and Performing Arts is fast becoming an “International Art Center” with its programs ranging from preschool to proficiency in art (Doctor of Musical Arts) and its professional ensembles and artistic organizations. Among some activities of the Faculty are the Early Music Training Program, Music Preparatory Primary and High Schools, the Bilkent Youth Symphony Orchestra, Bilkent Youth Choir, the Bilkent Youth Theater, the Bilkent Symphony Orchestra and the Bilkent International Anatolian Music Festival.

The public and universal identity of art necessitates the early and dynamic integration of art education with the society and the international art world. Aiding the appreciation of music in Turkey and actively participating and contributing to the artistic world nationally and internationally, are among the primary objectives of the Faculty.

ACADEMIC STAFF

Feruza Abdullaeva, Instructor
M.M., Violin, Bilkent University, 1999. Principle Second Violin, BSO.

Seyran Ahundzade, Instructor
B.M., Violin, Azerbaijan State Conservatory, 1978. Member, BSO.

Selen Akçora, Instructor
M.M., Clarinet, Bilkent University, 1998. Member, BSO.

Ece Akyol, Instructor
D.M.A., Viola, Bilkent University, 2009. Member, BSO.

Selçuk Akyol, Instructor

Davut Ali, Instructor
B.M., Violin, Erivan State Conservatory, 1985. Member, BSO.

Gökçe Altay, Instructor
D.M.A., Composition, Bilkent University, 2010.

Güloya Altay, Instructor
M.Mus., Horn, Johannes Gutenberg University, 2012.

Yiğit Aydin, Instructor
M.M., Composition and Conducting, Hacettepe University, 2000.

Ebru Naile Aykal, Instructor
M.M., Flute, Bilkent University, 1998. Member, BSO.
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Adelya Azikeyeva Atesoğlu, Instructor  
B.M., Violin, Tashkent State Conservatory, 1999. Member, BSO.

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Rasim Bağırov, Instructor  
B.M., Violin, Azerbaijan State Conservatory, 1977. Member, BSO.

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Cavid Caffer, Instructor  
B.M., Viola, Moscow “Tchaikovsky” State Conservatory, 1983. Principal Viola, BSO.

Nezihe Nil Cetiz, Instructor  
M.M., Violin, Bilkent University, 2004. Member, BSO.

Süreyya Defne, Instructor  
M.M., Violin, Bilkent University, 1995. Member BSO.

Eça Delikçi, Instructor  
D.M.A., Violin, Bilkent University, 2007. Member, BSO.

Verda Demirel, Instructor  
M.M., Violoncello, Bilkent University, 1998. Member, BSO.

Elif Enacar Baykal, Instructor  
M.M., Chamber Music, Bilkent University, 1995.

Ozan Evruk, Instructor  
M.M., Royal Northern College of Music, 2008. Member, BSO.

Shalva Gagua, Instructor  

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B.M., Double Bass, State Academy of Fine Arts, Tirana, 1989. Member, BSO.

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Toğrul Ganesöğlu, Assistant Professor  

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D.M.A., Aspirantura, Violoncello, Azerbaijan State Conservatory, 1980. Member, BSO.

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B.M., Viola, Leningrad State Conservatory, 1981. Member, BSO.

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M.M., Violin, Bilkent University, 1997. Member, BSO.

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B.M., Violin, Leningrad State Conservatory, 1970. Member, BSO.

Cem Güngör, Instructor  
B.M., Trombone, Hacettepe University, 2002. Principle Trombone BSO.

Laszlo Gyarmati, Instructor  
M.M., Horn, Ferenc Teacher Training School, Debrecen, 1993. Member, BSO.
Hasan Erim Hacat, Instructor
B.M., French Horn, Hacettepe University, 2011. Member, BSO.

Sema Celil Hakioğlu, Instructor
M.M., Viola, Bilkent University, 1998. Member, BSO.

Jason Edward Hale, Visiting Assistant Professor
M.A., Directing, Antioch University, 2010.

Hajredin Hoxha, Instructor

Nusret Ispir, Instructor
M.M., Clarinet, Conservatoire Régional de Musique de Rouen, 1996. Principle Clarinet, BSO.

Gamze Kirlı, Instructor

Krassimir Koniarov, Instructor
B.M., Trumpet, State Academy of Music, Sofia, 1990. Member, BSO.

Kağan Korad, Associate Professor

Peter Körner, Instructor
D.M.A., Konzertexamen - Doctor Arbeit, Trombone, Hochschule für Musik, München, 2002. Member, BSO.

Albena Krumova Sezer, Instructor
M.M., Flute, Sofia State Music Academy, 1995. Principle Flute BSO.

Vseslava Kudinova, Instructor
D.M.A., Violin, Bilkent University, 2007. Member, BSO.

Bahar Kutay, Instructor
M.M., Violin, Bilkent University, 1995. Member, BSO.

Julian Lupu, Instructor

Violeta E. Lupu, Instructor

Sergei Margulis, Instructor

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D.M.A., Percussion, Bilkent University, 2009. Member, BSO.

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B.M., Trombone, Moscow “Tchaikovsky” State Conservatory, 1990. Member, BSO.

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İşın Metin, Assistant Professor
D.M.A., Proficiency in Art, Composition, Bilkent University, 2000.

Arif Mposénoğlu, Instructor
M.M., Violin, Azerbaijan State Conservatory, 1984. Member, BSO.

Noriyoshi Murakami, Instructor
D.M.A., Tuba, Hochschule für Musik und Theater Hannover, 2008

Irîna Nikotina, Instructor
D.M.A., Aspirantura, Violin, Moscow Tchaikovsky State Conservatory, 1986. Member, BSO.

Maria Nowotna, Instructor
Burak Noyan, Instructor  
D.M.A., Proficiency in Art, Double Bass, Bilkent University, 2013. Member, BSO.

İskander Okeev, Instructor  
M.M., Violin, "Gnessin" State Institute of Music, 1986. Member, BSO.

Elif Onay, Instructor  
D.M.A., Viola, Bilkent University, 2009. Member, BSO.

Ersin Onay, Professor  

Gülsin Onay, Artist in Residence  
D.M.A., "Diplome Superieur Concertiste de Musique" Ecole Normale de Musique de Paris "Alfred Cortot".

Elena Postnova, Instructor  
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Barış Simolin, Instructor  
B.M., Viola, Tashkent State Conservatory, 1973. Member, BSO.

Svetlana Smolin, Instructor  
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Ezgi Tandoğan, Instructor  
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Viktoriya Tokdemir, Instructor  

Zurab Tsitsuashvili, Instructor  
M.M. Double Bass, Tbilisi State Conservatory, 1993. Member, BSO.

Muhammedjan Turdiev, Instructor  

Onur Türkmen, Instructor  

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D.M.A., Proficiency in Art, Violoncello, Bilkent University, 1999. Member, BSO.

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M.M., Clarinet, Moscow "Tchaikovsky" State Conservatory, 1993. Member, BSO.

Tahsin Tolga Yayalar, Assistant Professor  
Ph.D., Composition, Harvard University, 2010.

Rafiq Zamanov, Instructor  
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Zita Zempleni, Instructor  
B.M., Flute, "Ferenc Liszt" Academy of Music, 1980. Member, BSO.

**VOCATIONAL SPECIALISTS**

Leonard Chelov  
Miho Murakami  

PART-TIME ACADEMIC STAFF  
Fatma Neslihan Ekmeclioğlu, Ph.D., English Language and Literature, Hacettepe University, 1993.  
Anil Gelenler, B.M., Guitar, Bilkent University, 2003.  
Hazel Kömürçügil, B.M., Piano, Bilkent University, 2011.  
Evin Küpeli, B.M., Piano, Hacettepe University, 2006.  
Özcan Özer, M.A., Russian Language and Literature, Ankara University, 1975.  
Hande Uçar, B.M., Piano, Bilkent University, 2011.  
İlham Yazar, B.A., Acting, Hacettepe University, 1989.  
Ece Merve Yüceer, B.M., Composition, Bilkent University, 2012.
DEPARTMENT OF MUSIC


The Faculty’s departments are today internationally renowned for their excellence in education, international artistic ensembles and activities. Since its founding the main objective has been to train artists, educators and researchers with high creative and interpretative skills in various fields of music.

In addition to the undergraduate and graduate programs, preparatory primary and high schools for music were also founded with the aim of starting music education at the earliest possible age. In order to expand music education to everyone, regardless of age and profession, programs such as the Early Music Training Program for children and "Part-time Music Education" have been ongoing since its founding. Graduate programs cover studies in "music performance and interpretation" in all majors, "music theory" and "music composition".

The Music Department offers Bachelor of Music-B.M., Master of Music-M.M, Doctor of Philosophy in Music-Ph.D. degrees in the following programs and fields;

Theory and Composition Option - B.M., M.M., Ph.D.

Music Theory, Composition.

Instrument Option - B.M., M.M., Ph.D.

Piano, Classical Guitar, Percussion,
Violin, Viola, Violoncello, Double Bass,
Flute, Oboe, Clarinet, Bassoon, Horn, Trumpet, Trombone, Tuba.

Singing Option - B.M., M.M.

Amongst numerous artistic activities of the faculty are the "International Chopin Piano Competition" 1999 and the "International Theater Meeting" 1998. Since 2001, the students of the music department won many prizes in national and international competitions including "Sarasate", "Palmerès du 30", "Concours International de Musique et d’Art Sonore Electroacoustiques", IBLA. In 2003, the Bilkent Youth Choir won a gold medal in the 21st International Preveze Choir Contest and achieved the runner-up position in the 33rd Florilège Vocal de Tours 2004 competition in France. The Bilkent Youth Symphony Orchestra has partnered with international ensembles such as World Youth Orchestra, the Greek-Turkish Youth Orchestra and has participated in festivals such as the Young Euro Classic.

Bilkent Symphony Orchestra

The Bilkent Symphony Orchestra was founded in September 1993 as an original artistic project of the Bilkent University. Developed by the Faculty of Music and Performing Arts, the orchestra is
composed of experienced artists from various countries as well as Turkish and foreign young artists, who continue their graduate studies at the Institute. With these characteristics the Bilkent Symphony Orchestra, is the first private, academic and international artistic group in Turkey.

Starting as a "Sinfonietta" the Symphonic orchestra now has the identity of an "Ensemble of Orchestras" comprising the "Bilkent Chamber Orchestra" and an "Ensemble of String Instruments". With an average of 50 events each season and the participation of Turkish and foreign conductors, soloists and choirs, the ensemble of Orchestras has distinguished itself through the recording, television and radio broadcasting of its numerous performances. Through events such as "Bilkent Concert Series", "Turkish Composers Week", "Education Concerts" and "The Bilkent Anatolia Music Festival", the orchestra aims to bring a wide range of activities to large audiences; to spread the appreciation of music at the national level through its tours; to undertake international activities and develop cooperation with institutions abroad organizing such events; and to form a bridge of artistic communication with other countries.

Along these objectives the orchestra has toured to Italy, Germany, Belgium, Portugal, Switzerland and Japan. The orchestra has recorded over 40 CDs with labels such as BMP, NAXOS and EMI.

**UNDERGRADUATE PROGRAMS**

**COMPOSITION OPTION**

### FIRST YEAR

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<td>MSC 181</td>
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MSC 202 Department Seminar IV .................................. - / -
MSC 212 Composition IV ........................................... 5 / 6
MSC 214 Orchestration IV .......................................... 2 / 4
MSC 272 Techniques and Materials of Tonal Music IV .......... 3 / 7
MSC 274 History of Western Music IV ............................. 3 / 6
MSC 282 Ear Training IV ............................................ 3 / 6
MSC 284 Keyboard Skills IV ....................................... 2 / 3

**THIRD YEAR**

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<td>MSC 315</td>
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<td>MSC 321</td>
<td>Polyphony and Fugue</td>
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<td>MSC 323</td>
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<td>MSC 373</td>
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<td>MSC 374</td>
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**FOURTH YEAR**

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**SINGING OPTION**

**FIRST YEAR**

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<th>Course Code</th>
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MSC 103  Orchestra/Chorus/Ensemble I  2 / 3
MSC 151  Singing Voice I  5 / 11
MSC 181  Ear Training I  3 / 6
MSC 183  Keyboard Skills I  2 / 3
THEA 181  Acting Techniques I-Singing  3 / 3
Elective Language Italian I  3 / 6

Spring Semester  Credits / ECTS Credits
ENG 102  English and Composition II  3 / 6
MSC 100  Concert/Recital I  3 / 6
MSC 102  Department Seminar II  3 / 6
MSC 104  Orchestra/Chorus/Ensemble II  3 / 6
MSC 152  Singing Voice II  5 / 11
MSC 182  Ear Training II  3 / 6
MSC 184  Keyboard Skills II  3 / 6
THEA 182  Acting Techniques II-Singing  3 / 6
Elective Language Italian II  3 / 6

SECOND YEAR

Autumn Semester  Credits / ECTS Credits
GE 250  Collegiate Activities Program I  2 / 3
HCIV 101  History of Civilization I  3 / 6
MSC 171  Techniques and Materials of Tonal Music I  3 / 6
MSC 201  Department Seminar III  3 / 6
MSC 203  Orchestra/Chorus/Ensemble III  3 / 6
MSC 251  Singing Voice III  5 / 11
MSC 253  Opera Studies I  5 / 11
MSC 281  Ear Training III  5 / 11
MSC 283  Keyboard Skills III  5 / 11
THR 105  Movement and Combat I  5 / 11
THEA 181  Acting Techniques I-Singing  5 / 11
THEA 182  Acting Techniques II-Singing  5 / 11
MSC 102  Department Seminar II  5 / 11
MSC 103  Orchestra/Chorus/Ensemble I  5 / 11
MSC 151  Singing Voice I  5 / 11
MSC 171  Techniques and Materials of Tonal Music I  5 / 11
MSC 201  Department Seminar III  5 / 11
MSC 203  Orchestra/Chorus/Ensemble III  5 / 11
MSC 251  Singing Voice III  5 / 11
MSC 253  Opera Studies I  5 / 11
MSC 281  Ear Training III  5 / 11
MSC 283  Keyboard Skills III  5 / 11
THA 181  Acting Techniques I-Singing  5 / 11
THEA 182  Acting Techniques II-Singing  5 / 11

Spring Semester  Credits / ECTS Credits
GE 251  Collegiate Activities Program II  2 / 3
HCIV 102  History of Civilization II  3 / 3
MSC 172  Techniques and Materials of Tonal Music II  3 / 3
MSC 200  Concert/Recital II  3 / 3
MSC 202  Department Seminar IV  3 / 3
MSC 204  Orchestra/Chorus/Ensemble IV  3 / 3
MSC 252  Singing Voice IV  3 / 3
MSC 254  Opera Studies II  3 / 3
MSC 282  Ear Training IV  3 / 3
MSC 284  Keyboard Skills IV  3 / 3
THR 106  Movement and Combat II  3 / 3
THEA 181  Acting Techniques I-Singing  3 / 3
THEA 182  Acting Techniques II-Singing  3 / 3
MSC 102  Department Seminar II  3 / 3
MSC 103  Orchestra/Chorus/Ensemble I  3 / 3
MSC 151  Singing Voice I  3 / 3
MSC 171  Techniques and Materials of Tonal Music I  3 / 3
MSC 201  Department Seminar III  3 / 3
MSC 203  Orchestra/Chorus/Ensemble III  3 / 3
MSC 251  Singing Voice III  3 / 3
MSC 253  Opera Studies I  3 / 3
MSC 281  Ear Training III  3 / 3
MSC 283  Keyboard Skills III  3 / 3
THA 181  Acting Techniques I-Singing  3 / 3
THEA 182  Acting Techniques II-Singing  3 / 3

THIRD YEAR

Autumn Semester  Credits / ECTS Credits
MSC 173  History of Western Music I  3 / 3
MSC 271  Techniques and Materials of Tonal Music III  3 / 3
MSC 301  Department Seminar V  3 / 3
MSC 303  Orchestra/Chorus/Ensemble V  3 / 3
MSC 351  Singing Voice V  3 / 3
MSC 383  Keyboard Skills V  3 / 3
MSC 453  Opera Studies III  3 / 3
Elective Language German I  3 / 3

Spring Semester  Credits / ECTS Credits
HIST 200  History of Turkey  4 / 4
MSC 174  History of Western Music II  4 / 4
MSC 272  Techniques and Materials of Tonal Music IV  4 / 4
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<td>MSC 352</td>
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<td>MSC 384</td>
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<td>MSC 454</td>
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**FOURTH YEAR**

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**ELECTIVE LANGUAGE GERMAN**

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**INSTRUMENT OPTION**

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**SECOND YEAR**

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<td>History of Civilization I</td>
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#### Spring Semester

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<tr>
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<td>History of Turkey</td>
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<td>Concert/Recital III</td>
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<td>MSC 304</td>
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<td>MSC 334</td>
<td>Chamber Music VI</td>
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<td>MSC 374</td>
<td>Traditional Turkish Music and Divan Music</td>
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#### Spring Semester

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<td>MSC 400</td>
<td>Graduation Project Concert</td>
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<td>MSC 402</td>
<td>Department Seminar VIII</td>
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<tr>
<td>MSC 404</td>
<td>Orchestra/Chorus/Ensemble VIII</td>
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<tr>
<td>MSC 432</td>
<td>Instrument VIII</td>
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<td>Turkish II</td>
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<tr>
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<td>3/6</td>
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</table>
MINOR PROGRAM
The program is designed to offer a single track combining applied training and studies in music. Applied courses consist of individual studies on instrument performance and stage performance practices. These courses are carried out one on one with FMPA faculty and artists. Skills to be acquired and experience to be gained from applied courses are expected to be of influence on personal development of students in other areas as well. Potential of musical development of each student sets the standard for each course. Courses on music studies subjects are also offered to supplement the applied courses and to offer scholarly knowledge on the science of music. Applied courses are scheduled with the instructor to suit the availabilities of each student. Other courses are taken together with Music major students.

Prerequisite Courses: None

CURRICULUM

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<tr>
<th>Courses</th>
<th>Credits / ECTS Credits</th>
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<tr>
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<tr>
<td>MSC 200 Concert/Recital II</td>
<td>- / -</td>
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<td>MSC 273 History of Western Music III</td>
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<tr>
<td>MSC 274 History of Western Music IV</td>
<td>3 / 6</td>
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<tr>
<td>MSC 903 Ear Training for Non-Majors I</td>
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<tr>
<td>MSC 904 Ear Training for Non-Majors II</td>
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<tr>
<td>MSC 911 Individual Music Studies</td>
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<tr>
<td>MSC 912 Individual Music Studies II</td>
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<td>MSC 921 Individual Music Studies III</td>
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<tr>
<td>MSC 922 Individual Music Studies IV</td>
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<td>Elective(Any MSC course)</td>
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GRADUATE PROGRAM
The aim of the graduate program is to train professional artists in the areas of performance, creativity and research. Students have the opportunity to study and develop under the guidance of internationally renowned artists at the Faculty, and to display their development professionally through presentations, recitals, concerts as well as live and studio recordings. Music Performance and Interpretation majors are invited for selected events to perform with the Bilkent Symphony Orchestra and Composition majors works are widely presented by the Faculties professional ensembles. These public appearances and recordings are organized by the Faculty of Music and Performing Arts to equip the student with advanced professional experience, thereby widening their horizons in the artistic world. Ph.D. candidates are offered a program that emphasizes research in addition to music performance and creation.

The graduate program offers the following degrees in various fields and majors. Courses and requirements are also listed below. (Also refer to the “Graduate Admissions” section in the introduction of this catalog for the general graduate admission requirements.)

Admission requirements common to programs include a Bachelor's degree (non-music majors accepted) with a standing of 3.00 CGPA for scholarship applicants. English Language Proficiency, Reference letters, Admission Interview, Admission Recital, Composition or Theory Portfolio Review, Music Theory and History Assessment.

Master of Music in Music Performance and Interpretation (M.M.)
Program offers a single track curriculum comprising major fields in; Flute, Oboe, Clarinet, Bassoon, Horn, Trumpet, Trombone, Tuba, Percussion, Harp, Piano, Classical Guitar, Violin, Viola, Violoncello, Double-bass, Operatic Voice and Chamber Music.
### CURRICULUM

#### Courses

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</table>
|          | Department Electives (2)| 6 / 12
|          | Graduate Elective       |
|          | Group I Restricted Electives (8) | 3 / 6

#### Degree Requirements

- **Standing**: 3.00 CGPA
- **Requirement**: Minimum grade of "B" from MSG 541 jury assessed lecture-concert performance and recording.
- **Thesis**: Not applicable.

### Doctor of Philosophy in Music (Ph.D.)

Program offers tracks in:

- Music Composition
- Music Theory

The Composition track and the Music Theory track do not comprise pre-determined fields or areas. Ph.D. thesis of each student determines area of study and research. Music Performance and Interpretation track research requirement or thesis does not need to possess direct correspondence with the candidate’s field or major.

#### CURRICULUM FOR ADMISSION WITH A BACHELORS DEGREE

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<td>MSG 900</td>
<td>Ph.D. Dissertation</td>
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|          | Department Electives (7) | 21 / 42
|          | Graduate Electives (2)   | 6 / 12
|          | Group I Restricted Electives (4) | 12 / 24
|          | Group II Restricted Electives (7) | 21 / 42

#### CURRICULUM FOR ADMISSION WITH A MASTERS DEGREE

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|          | Department Electives (2) | 6 / 12
|          | Graduate Elective       | 3 / 6
|          | Group II Restricted Electives (6) | 18 / 36

#### Degree Requirements

- **Standing**: 3.00 CGPA
- **Requirements**: Minimum grade of "A" from MSG 541 or MSG 527 and MSG 741 or MSG 745 jury assessed lecture-concert performance and recording.

  - Proficiency examination.
  - Dissertation proposal evaluation.
Publication: The Journal must be listed, as of the submission date of the article in the Institute for Scientific Information’s (ISI) Science Citation Index, Social Science Citation Index and Arts & Humanities Citation Index, or in the department's journal list.


### GROUP I RESTRICTED ELECTIVES

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<td>MSG 515</td>
<td>Music Theory</td>
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<tr>
<td>MSG 517</td>
<td>Tonal Music Topics and Analysis</td>
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<td>MSG 521</td>
<td>Masters Lecture Recital</td>
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<td>MSG 525</td>
<td>Bilkent Ensembles</td>
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<td>MSG 527</td>
<td>Masters Theory Presentation</td>
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<td>MSG 531</td>
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<td>MSG 535</td>
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<td>MSG 537</td>
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<td>MSG 710</td>
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<td>Music Performance and Interpretation</td>
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<td>MSG 713</td>
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<td>MSG 804</td>
<td>History of Tonal Music Theory</td>
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Graduate Elective: Any 5xx coded Bilkent course with 3 credits.

COURSE DESCRIPTIONS

UNDERGRADUATE COURSES

MSC 100  Concert/Recital I
Annual concert presenting works from fall and spring semesters. The event is arranged and held by students.

MSC 101  Department Seminar I
Organized with the contribution of faculty, students, guest speakers to aid students in developing skills on verbalizing music, following current trends in composition, learning to approach music from different perspectives, getting to meet living composers and hear them talk about their own music. Credit units: None ECTS Credit Units: None. Aut (Staff)

MSC 102  Department Seminar II
Credit units: None ECTS Credit Units: None, Prerequisite: MSC 101. Aut (Staff) Spr (Staff)

MSC 103  Orchestra/Chorus/Ensemble I
The FMPA orchestras are the Bilkent Youth Symphony Orchestra, The Bilkent Preparatory Symphony Orchestra and the Bilkent Youth Virtuosi. Students take part in one of the orchestras and are chosen to the Bilkent Youth Virtuosi. The course is realized with weekly rehearsals. Each orchestra rehearses an average of 84 hours per semester. The FMPA chorus is Bilkent Youth Chorus. Selected repertoire listing consisting of a-capella, accompanied, and cantata, oratorio, operatic forms to be performed progressively through weekly rehearsals. The Bilkent Youth Chorus rehearses an average of 56 hours per semester. The FMPA ensemble is the Bilkent Youth Chamber Music Ensemble consisting of a variety of performance majors from different tracks. Selected repertoire listings varying from baroque to contemporary music to be performed throughout the semesters. Credit units: 2 ECTS Credit Units: 3. Aut (G. Altay, I. Metin)

MSC 104  Orchestra/Chorus/Ensemble II
The FMPA orchestras are the Bilkent Youth Symphony Orchestra, The Bilkent Preparatory Symphony Orchestra and the Faculty Concert Strings. Students take part in one of the symphonic orchestras and are chosen to the Concert String Orchestra. The course is realized with weekly double rehearsals at the Bilkent Concert Hall. Each ensemble rehearses an average of 84 hours per semester. Credit units: 2 ECTS Credit Units: 3, Prerequisite: MSC 103. Aut (G. Altay, I. Metin) Spr (I. Metin)

MSC 111  Composition I
Introduction to composition. Single musical idea applications for choices of solo instruments. Composition dossier consisting of pieces with total duration no less than 5 minutes must include piece for piano solo. Students are expected to analyze their works before a jury at the final examination. Credit units: 5 ECTS Credit Units: 6. Aut (T. T. Yayalar)

MSC 112  Composition II
Compositions for small-scale chamber music ensembles such as duos or trios. Introduction to composing contrasting material from single musical ideas. Dossier of pieces with total duration no less than 5 minutes. Students are expected to analyze their works before a jury at the final examination. Credit units: 5 ECTS Credit Units: 6, Prerequisite: MSC 111. Spr (T. T. Yayalar)

MSC 113  Orchestration I
The orchestra, past and present. Ensemble structures of orchestras. Knowledge of instruments. Basic acoustic principles. The Divisions and subdivisions of the orchestral instruments according to various principles. Basic characteristics of the string, woodwind, brass and percussion section instruments. Detailed historic and technical inquiry into the characteristics of instruments belonging to these sections. Basics of scoring techniques. Bowed string instruments, as group and individually. Plucked string instruments. Scoring for strings - transcription and instrumentation. Credit units: 2 ECTS Credit Units: 4. Aut (Y. Aydin)

MSC 114  Orchestration II
The wind ensemble. Individual woodwinds. Scoring for woodwind and woodwind with string combinations. Introduction to Brass Instruments. Scoring for a pre-classical orchestra - transcription and instrumentation. Credit units: 2 ECTS Credit Units: 4, Prerequisite: MSC 113. Spr (Y. Aydin)
MSC 131  Instrument I
The course aims to help acquire the basic principles of professional interpretation through the establishment of professional study techniques. To help the students in finding their own true musical understanding. To guide them in using the right techniques on their instruments by the benefit of various schools and methods. Selected repertoire listing to be performed progressively throughout the semester. Credit units: 5 ECTS Credit Units: 11. Aut (A. Aziz, R. Bağrov, O. Evruk, G. Kirti, K. Korad, E. Onay)

MSC 132  Instrument II
The continuation of further studies on a new repertoire with the aim to achieve the artistic-technical goals presented in MUSS 101. Credit units: 5 ECTS Credit Units: 11, Prerequisite: MSC 131. Aut (O. Evruk, T. Ganioğlu, P. Körner) Spr (S. Akçora, A. Aziz, R. Bağrov, O. Evruk, G. Kirti, K. Korad, İ. Mehmet)

MSC 133  Chamber Music I
Score analysis, discussion and study of various composers’ principal chamber works. Comparision of formal characteristics, scoring, and compositional practices. Performance of the repertoire consisting of baroque to pre-classic era with particular emphasis on the works of Boccherini, Hummel and Stamitz with various chamber ensembles consisting of various instruments. Credit units: 3 ECTS Credit Units: 6. Aut (Staff)

MSC 134  Chamber Music II
Analysis and application of the interpretative styles of the selected repertoire. Practices on the selected repertoire tollege alla seconda, togetherness in performance. Pre-classic to classic repertoire consisting mainly of Haydn’s early quartets, trios and Beethoven’s duo and trios. Credit units: 3 ECTS Credit Units: 6, Prerequisite: MSC 133. Aut (Staff) Spr (Staff)

MSC 151  Singing Voice I
Credit units: 5 ECTS Credit Units: 11. Aut (K. Davran, Z. M. Gökoğlu, G.Şekeranber)

MSC 152  Singing Voice II
Credit units: 5 ECTS Credit Units: 11, Prerequisite: MSC 151. Aut (Z. M. Gökoğlu) Spr (K. Davran, G.Şekeranber)

MSC 171  Techniques and Materials of Tonal Music I
Aural and analytical skills necessary to define and analyse music composition and theory. Rudimentary theory, harmony, counterpoint and basic form. Terminology of music theory and some basic musical concepts, elements of music, musical composition as paradigm (rudimentary theory); basic principles of functional harmony, simple harmonic progressions, cadence types (harmony); introduction to modality and renaissance counterpoint in accordance with the species system (counterpoint). Credit units: 3 ECTS Credit Units: 7. Aut (G. Altay)

MSC 172  Techniques and Materials of Tonal Music II
Basics of diatonic harmony, diatonic modulation, secondary functions and non-chord tones (harmony); complete species system on renaissance counterpoint, counterpoint with mixed values and simple imitation techniques (counterpoint). Credit units: 3 ECTS Credit Units: 7, Prerequisite: MSC 171. Spr (Y. Aydın)

MSC 173  History of Western Music I

MSC 174  History of Western Music II

MSC 181  Ear Training I
keys. Introduction to collective solfège. The solo and collective musical reading and simultaneous sight singing of repertoire consisting of these musical criteria. Credit units: 3 ECTS Credit Units: 6. Aut (M. Nowotna)

MSC 182 Ear Training II

MSC 183 Keyboard Skills I
Basic to intermediate skills of piano playing. Piano as an auxiliary instrument. Sight reading at the piano. Basic methods of realization as defined by O. Gartenlaub. Selected repertoire listing to be performed progressively throughout the semesters. Credit units: 2 ECTS Credit Units: 3. Aut (N. Skhvitaridze)

MSC 184 Keyboard Skills II
Further study to enhance the skills gained in MUSS 251 on a new repertoire. Credit units: 2 ECTS Credit Units: 3. Prerequisite: MSC 183. Aut (N. Skhvitaridze) Spr (N. Skhvitaridze)

MSC 200 Concert/Recital II
A yearly recital project for the Instrument and Singing option students. May be given for spring or fall semesters of the senior undergraduate academic year. Credit units: None ECTS Credit Units: None. Prerequisite: MSC 100. Aut (G. Aziz, N. N. Cetiz) Spr (E. Akyol, T. Ganoğlu, K. Korad)

MSC 201 Department Seminar III
Credit units: None ECTS Credit Units: None. Prerequisite: MSC 102. Aut (Staff) Spr (Staff)

MSC 202 Department Seminar IV
Credit units: None ECTS Credit Units: None. Prerequisite: MSC 201. Aut (Staff) Spr (Staff)

MSC 203 Orchestra/Chorus/Ensemble III
The FMPA orchestras are the Bilkent Youth Symphony Orchestra, The Bilkent Preparatory Symphony Orchestra and the Faculty Concert Strings. Students take part in one of the symphonic orchestras and are chosen to the Concert String Orchestra. The course is realized with weekly double rehearsals at the Bilkent Concert Hall. Each ensemble rehearse an average of 84 hours per semester. Credit units: 2 ECTS Credit Units: 3. Aut (G. Altay, I. Metin) Spr (I. Metin)

MSC 204 Orchestra/Chorus/Ensemble IV
The FMPA orchestras are the Bilkent Youth Symphony Orchestra, The Bilkent Preparatory Symphony Orchestra and the Faculty Concert Strings. Students take part in one of the symphonic orchestras and are chosen to the Concert String Orchestra. The course is realized with weekly double rehearsals at the Bilkent Concert Hall. Each ensemble rehearse an average of 84 hours per semester. Credit units: 2 ECTS Credit Units: 3. Prerequisite: MSC 203. Aut (G. Altay) Spr (I. Metin)

MSC 211 Composition III
Composition for small-scale chamber music ensembles such as quartets. Analysis of similar structures from a broad chronology corresponding with own work. Dossier including completed works of contrasting and related musical ideas with total duration no less than 7 minutes. Students are expected to defend their works at the final jury in terms of intellectual approach, composition technique, orchestration, style, form and related criteria. Credit units: 5 ECTS Credit Units: 6. Prerequisite: MSC 112.

MSC 212 Composition IV
Composition for large-scale chamber music ensembles of at least five musicians. Dossier including completed works of at least one single movement with total duration no less than 10 minutes. Students are expected to defend their works at the final jury in terms of intellectual approach, composition technique, orchestration, style, form and related criteria. Credit units: 5 ECTS Credit Units: 6. Prerequisite: MSC 211.

MSC 213 Orchestration III

MSC 214 Orchestration IV
Scoring for orchestra. Analysis of various orchestration styles. Advanced scoring of orchestral sections. Basic scoring for double and triple orchestral formations. Contemporary techniques of instrumentation. The orchestra
as accompanist. Transcribing for an orchestral ensemble. Scoring for band and/or wind ensemble. Orchestration. The score and parts. Orchestral transcription. Orchestration. Credit units: 2 ECTS Credit Units: 4, Prerequisite: MSC 213.

MSC 231 Instrument III
The course aims to develop musicality and mechanical facilities. To help gain an understanding for the compositional formations of the pieces by establishing a feel for form and harmonic fundamentals. To help the student acquire the habit of working on both the whole and the details of pieces thus establishing micro and macro understanding of the piece. Selected repertoire listing to be performed progressively throughout the semester. Credit units: 5 ECTS Credit Units: 11, Prerequisite: MSC 132. Aut (K. Korad, İ. Nikotina) Spr (T. Ganoğlu, P. Körner)

MSC 232 Instrument IV
The continuation of further studies on a new repertoire with the aim to achieve the artistic-technical goals presented in MUSS 103. Credit units: 5 ECTS Credit Units: 11, Prerequisite: MSC 231. Aut (E. Akyol, G. Aziz, N. N. Cetiz) Spr (K. Korad)

MSC 233 Chamber Music III
Performance of the classic era repertoire consisting of works by Beethoven, Mozart and Schubert. Group study on the pieces towards achieving professionalism in the technique of ensemble playing. Credit units: 3 ECTS Credit Units: 6, Prerequisite: MSC 134. Aut (Staff)

MSC 234 Chamber Music IV
Performance of the classic era repertoire consisting of works by Schubert and Beethoven. Group study on the pieces towards achieving brilliance in balance and unity of the ensemble. Credit units: 3 ECTS Credit Units: 6, Prerequisite: MSC 233. Aut (Staff)

MSC 251 Singing Voice III
Credit units: 5 ECTS Credit Units: 11, Prerequisite: MSC 152. Spr (Z. M. Gökkoğlu)

MSC 252 Singing Voice IV
Credit units: 5 ECTS Credit Units: 11, Prerequisite: MSC 251.

MSC 253 Opera Studies I
Cornerstone works of opera repertoire are performed in collaboration with Bilkent Youth Symphony Orchestra. Credit units: 1 ECTS Credit Units: None. Spr (G. Çeliktas)

MSC 254 Opera Studies II
Cornerstone works of opera repertoire are performed in collaboration with Bilkent Youth Symphony Orchestra. Credit units: 1 ECTS Credit Units: None, Prerequisite: MSC 253.

MSC 271 Techniques and Materials of Tonal Music III
Chromatic harmony, chromatic modulation, introduction to mode mixtures and complex progressions of secondary functions (harmony); baroque counterpoint, imitation techniques, invention and fugue (counterpoint). Credit units: 3 ECTS Credit Units: 7, Prerequisite: MSC 172. Aut (G. Altay)

MSC 272 Techniques and Materials of Tonal Music IV
Mode mixtures, enharmonic spellings and modulation to further regions, complex harmonic progressions and further elements of harmonic regions (harmony); basic formal concepts, period, semicircular, small ternary and binary forms (form and analysis). Credit units: 3 ECTS Credit Units: 7, Prerequisite: MSC 271. Spr (Y. Aydın)

MSC 273 History of Western Music III

MSC 274 History of Western Music IV
MSC 281 Ear Training III
Principles of theoretical analysis. Melodic elaboration. Altered chords and chromaticism. Modulation cont. Style and music. Modes (antique, national etc.) Musical media and special designations. Written and aural exercises on these subjects. Dictation of difficult two period one-part, two-part, three part and four-part 16 measure dictees containing mixed rhythms, syncopation, agog; Homophonic style including all the intervals with diatonic and chromatic modulation to relative keys and modulation to remote keys. Intermediate reading skills. Mixed keys. Credit units: 3 ECTS Credit Units: 6, Prerequisite: MSC 182.

MSC 282 Ear Training IV
Twentieth century materials of music. Designations. Graphic notation. Recapitulation of music theory subjects. Colloquium. Written and aural exercises on these subjects. Dictation of very difficult two period one to four-part 16 measure dictees containing mixed rhythms, syncopation, agog; Polyphonic style including all the intervals with diatonic and chromatic modulation to relative keys, modulation to remote keys, enharmonic modulation. Advanced reading skills. Credit units: 3 ECTS Credit Units: 6, Prerequisite: MSC 281.

MSC 283 Keyboard Skills III
Progress of the skills acquired in the previous year. Progress of technique. The use of piano as an auxiliary instrument. Selected repertoire listing to be performed progressively throughout the semester. Credit units: 2 ECTS Credit Units: 3, Prerequisite: MSC 184. Spr (N. Skvitaridze)

MSC 284 Keyboard Skills IV
Basic to intermediate skills of piano playing. Piano as an auxiliary instrument. Sight reading at the piano. Basic methods of realization as defined by O. Gartenlaub. Selected repertoire listing to be performed progressively throughout the semesters. Credit units: 2 ECTS Credit Units: 3, Prerequisite: MSC 283.

MSC 300 Concert/Recital III
Credit units: None ECTS Credit Units: None, Prerequisite: MSC 200. Aut (G. Aziz, B. Kutay, E. Onay, T. T. Yayalar)

MSC 301 Department Seminar V
Credit units: None ECTS Credit Units: None, Prerequisite: MSC 202. Aut (Staff) Spr (Staff)

MSC 302 Department Seminar VI
Credit units: None ECTS Credit Units: None, Prerequisite: MSC 301.

MSC 303 Orchestra/Chorus/Ensemble V
The FMFA orchestras are the Bilkent Youth Symphony Orchestra, The Bilkent Preparatory Symphony Orchestra and the Faculty Concert Strings. Students take part in one of the symphonic orchestras and are chosen to the Concert String Orchestra. The course is realized with weekly double rehearsals at the Bilkent Concert Hall. Each ensemble rehearses an average of 84 hours per semester. Credit units: 2 ECTS Credit Units: 3, Prerequisite: MSC 204. Aut (G. Altay, I. Metin) Spr (I. Metin)

MSC 304 Orchestra/Chorus/Ensemble VI
The FMFA orchestras are the Bilkent Youth Symphony Orchestra, The Bilkent Preparatory Symphony Orchestra and the Faculty Concert Strings. Students take part in one of the symphonic orchestras and are chosen to the Concert String Orchestra. The course is realized with weekly double rehearsals at the Bilkent Concert Hall. Each ensemble rehearses an average of 84 hours per semester. Credit units: 2 ECTS Credit Units: 3, Prerequisite: MSC 303. Aut (G. Altay) Spr (I. Metin)

MSC 311 Composition V
Vocal music composition and/or large chamber music ensemble consisting of at least eight musicians. Analysis of similar structures from a broad chronology corresponding with own work as well as current trends in composition. Dossier including completed work(s) with total duration no less than 15 minutes. Students are expected to defend their works at the final jury in terms of intellectual approach, composition technique, orchestration, style, form and related criteria. Credit units: 5 ECTS Credit Units: 6, Prerequisite: MSC 311. Spr (Y. Aydin)

MSC 312 Composition VI
As the core of composition studies in general becomes apparent at this stage, composition for large-scale music ensembles with an emphasis on achieving own original musical language is expected. Dossier including completed work(s) promising genuine original musical language with total duration no less than 15 minutes. Students are expected to defend their works at the final jury in terms of intellectual approach, composition technique, orchestration, style, form and related criteria as well as own musical language. Credit units: 5 ECTS Credit Units: 6, Prerequisite: MSC 311. Spr (Y. Aydin)

MSC 315 Score Reading I
Introduction to score notion and its realization. Notion of ancient clefs. Realization of one and two part music by ancient clefs. Idea of transposition. Basic idea of transposing instruments and actual sounding. Realization of one and two part music with transposing instruments. Introduction to sight reading music with more than two parts. Realization of easy to moderate difficulty scores with three and four parts from repertoire by both ancient
clefs and transposing instruments where only up to two transposing instruments co-exist. Realization of simple chamber music scores up to four parts. Credit units: 3 ECTS Credit Units: 5, Prerequisite: MSC 282. Aut (I. Metin)

MSC 316 Score Reading II
Idea of following musical lines in scores. Realization of music with four parts with crossing parts. Extended sight reading with five parts both by ancient clefs and transposing instruments where only up to two different transposing instruments co-exist. Realization of examples from repertoire up to moderate difficulty with five parts. Sight reading of multiple transposing scores. Basic idea of different transposition utilization. Realization of scores with difficult transposing parts. Examples from brass and wind parts from late romantic works where at least three different transposing instruments co-exist. Credit units: 3 ECTS Credit Units: 5, Prerequisite: MSC 315. Spr (I. Metin)

MSC 321 Polyphony and Fugue
Contrapuntal practices of the Baroque era, with special emphasis on imitation techniques and the "Art of Fugue". The style of J. S. Bach, his predecessors, contemporaries, and followers. Regular assignments, including composition exercises, as well as the analysis of short compositions in the related styles are compulsory. Credit units: 3 ECTS Credit Units: 5, Prerequisite: MSC 272. Aut (G. Altay)

MSC 322 Post - Tonal Music I
Composition and music processes of 20th century post-tonal music. The accessibility of it by understanding issues such as pitch organization, rhythm and meter, form, texture, and aesthetics. Credit units: 2 ECTS Credit Units: 4, Prerequisite: MSC 272. Spr (T. T. Ayalar)

MSC 323 Form and Analysis I

MSC 324 Form and Analysis II

MSC 326 Conducting I

MSC 327 Vocal Music of Modal Repertoire
Course primarily focuses on modal repertoire of renaissance (15th and 16th centuries) and contemporary (from 20th century onwards) vocal music, including experimental approaches. Practical analysis and performance skills of selected repertoire of composers such as Josquin des Prez, Orlando di Lasso, Carlo Gesualdo, J.S. Bach, Francis Poulenc, György Ligeti, Karlheinz Stockhausen and Ahmed Adnan Saygun. Credit units: 3 ECTS Credit Units: 6.

MSC 331 Instrument V
The course aims to improve stylistic understanding by the introduction of the instrumental repertoire of various historical periods. To achieve a high level of musicianship and technique in interpretation. To help gain physical and psychological ease during stage performance. Selected repertoire listing to be performed progressively throughout the semester. Credit units: 5 ECTS Credit Units: 11, Prerequisite: MSC 323. Aut (F. Abdullah, D. Ali, E. Deliç, D. Gani, A. Mecid, E. Onay) Spr (E. Akyol, N. N. Cetiz, K. Korad)
MSC 332 Instrument VI
The continuation of further studies on a new repertoire with the aim to achieve the artistic-technical goals presented in MUSS 105. Credit units: 5 ECTS Credit Units: 11, Prerequisite: MSC 331. Spr (D. Gani, G. Kõrtõl, A. Mecid, İ. Ökeev, E. Onay)

MSC 333 Chamber Music V
Performance of the early romantic era repertoire consisting of works by Schubert, Schumann and Mendelssohn. Credit units: 3 ECTS Credit Units: 6, Prerequisite: MSC 234. Aut (Staff) Spr (Staff)

MSC 334 Chamber Music VI
Analytic analysis of the repertoire and interpretation styles of the romantic and contemporary chamber music repertoire. Brahms's chamber compositions. Credit units: 3 ECTS Credit Units: 6, Prerequisite: MSC 333.

MSC 351 Singing Voice V
Credit units: 5 ECTS Credit Units: 11, Prerequisite: MSC 252. Aut (G. Şekeranber)

MSC 352 Singing Voice VI
Credit units: 5 ECTS Credit Units: 11, Prerequisite: MSC 351.

MSC 373 History of 20th Century Music

MSC 374 Traditional Turkish Music and Divan Music
Brief history of traditional Turkish Music and Divan Music. Basic knowledge and recognition of fundamental concepts such as makam, seýir, usul and some traditional musical forms. General analysis of the selected repertoire and aural exercises on related subjects Credit units: 2 ECTS Credit Units: 3. Spr (Y. Aydrin)

MSC 383 Keyboard Skills V
Applied studies on string, wind, brass and percussion instruments. Basic skills of performance mechanics. Extended information on the instrument and its capabilities. Selected repertoire listing to be performed progressively throughout the semesters. Credit units: 2 ECTS Credit Units: 3, Prerequisite: MSC 283. Aut (N. Skhvitandze)

MSC 384 Keyboard Skills VI
Applied studies on string, wind, brass and percussion instruments. Basic skills of performance mechanics. Extended information on the instrument and its capabilities. Selected repertoire listing to be performed progressively throughout the semesters. Credit units: 2 ECTS Credit Units: 3, Prerequisite: MSC 383.

MSC 400 Graduation Project Concert
A dossier consisting of all works presented in the composition course juries must include music for solo instruments, small and large-scale chamber ensembles, vocal music and orchestral music. The dossier including works totaling no less than one hour should be presented to the jury 10 working days prior to the graduation project concert. The composition student must organize a concert covering selection of his compositions. Credit units: 1 ECTS Credit Units: 1, Prerequisite: MSC 412 or MSC 432 or MSC 452. Aut (G. Aziz, S. Smolin, T. T. Yayalar) Spr (G. Aziz, C. Çaker, K. Davran, E. Delikçi, T. Ganoğlu, Z. M. Gökoğlu, B. Kutay, E. Onay, G. Şekeranber, T. T. Yayalar)

MSC 401 Department Seminar VII
Credit units: None ECTS Credit Units: None, Prerequisite: MSC 302. Aut (Staff)

MSC 402 Department Seminar VIII
Credit units: None ECTS Credit Units: None. Spr (Staff)
MSC 403  Orchestra/Chorus/Ensemble VII
The FMPA orchestras are the Bilkent Youth Symphony Orchestra, The Bilkent Preparatory Symphony Orchestra and the Faculty Concert Strings. Students take part in one of the symphonic orchestras and are chosen to the Concert String Orchestra. The course is realized with weekly double rehearsals at the Bilkent Concert Hall. Each ensemble rehearses an average of 84 hours per semester. Credit units: 2 ECTS Credit Units: 3, Prerequisite: MSC 304. Aut (G. Altay, I. Metin)

MSC 404  Orchestra/Chorus/ Ensemble VIII
The FMPA orchestras are the Bilkent Youth Symphony Orchestra, The Bilkent Preparatory Symphony Orchestra and the Bilkent Youth Virtuosi. Students take part in one of the orchestras and are chosen to the Bilkent Youth Virtuosi. The course is realized with weekly rehearsals. Each orchestra rehearsal an average of 56 hours per semester. The FMPA chorus is Bilkent Youth Chorus. Selected repertoire listing consisting of a-capella, accompanied, and cantata, oratorio, operatic forms to be performed progressively through weekly rehearsals. The Bilkent Youth Chorus rehearses an average of 56 hours per semester. The FMPA ensemble is the Bilkent Youth Chamber Music Ensemble consisting of a variety of performance majors from different tracks. Selected repertoire listings varying from baroque to contemporary music to be performed throughout the semesters. Credit units: 2 ECTS Credit Units: 3, Prerequisite: MSC 403. Aut (G. Altay) Spr (I. Metin)

MSC 411  Composition VII
Composition of a large-scale genuinely creative work for orchestra. Dossier to include advanced sketches including orchestral fragments of work in progress. Students are expected to present thorough domination on their work and use appropriate technical jargon while they defend their work at the final jury in terms of intellectual approach, composition technique, orchestration, style, form and related criteria as well as own musical language. Credit units: 5 ECTS Credit Units: 6, Prerequisite: MSC 312. Aut (T. T. Yayalar)

MSC 412  Composition VIII
The work submitted at the final jury of composition vii should be completed. The work should portray originality and advanced skills on compositional technique, form and orchestration. Students are expected to present thorough domination on their work and use appropriate technical jargon while they defend their work at the final jury in terms of intellectual approach, composition technique, orchestration, style, form and related criteria as well as own musical language. Credit units: 5 ECTS Credit Units: 6, Prerequisite: MSC 411. Spr (T. T. Yayalar)

MSC 415  Score Reading III

MSC 416  Score Reading IV
Realization of difficult full scores mainly starting from late romantic period. Extended information about timbre and sound balance. Playing difficult scores on piano. Transcription exercises. Modern scores and idea of effect. Idea of changing orchestra and ensemble. Information on extended techniques and color. Idea of extended aural expectancy in modern scores. Credit units: 3 ECTS Credit Units: 5, Prerequisite: MSC 415. Spr (I. Metin)

MSC 421  Post - Tonal Music II
Centrality, referential collections, serialization and further developments from 1940’s onwards with an analytical point of view. Credit units: 2 ECTS Credit Units: 4, Prerequisite: MSC 322. Aut (T. T. Yayalar)

MSC 425  Conducting II

MSC 431  Instrument VII
The course aims to achieve maturity in every aspect of interpretation. Analysis of style and interpretation through the study of detail on pieces. To help gain physical and psychological ease during stage performance of rather difficult and long masterpieces. Selected repertoire listing to be performed progressively throughout the semester. Credit units: 5 ECTS Credit Units: 11, Prerequisite: MSC 332. Aut (G. Aziz, R. Bağirov, C. Cafer, T. Ganioglu, B. Kutay)
MSC 432 Instrument VIII
The continuation of further studies on a new repertoire with the aim to achieve the artistic-technical goals presented in MUSS 107. Preparation and rehearsal of the graduation repertoire also including a must piece that is chosen by the graduation jury and submitted to each student two weeks prior to the graduation concert. Credit units: 5 ECTS Credit Units: 11, Prerequisite: MSC 431. Aut (E. Onay, S. Smolin) Spr (G. Aziz, R. Bağırov, C. Çafer, E. Delikçi, T. Ganioglu, B. Kütay)

MSC 433 Chamber Music VII
Introduction to the chamber music compositions of Turkish Composers. Beethoven's late quartets. Study and practices with the aim of achieving maturity in stage performance. Credit units: 3 ECTS Credit Units: 6, Prerequisite: MSC 334. Aut (E. Onay, S. Smolin) Spr (G. Aziz, R. Bağırov, C. Çafer, E. Delikçi, T. Ganioglu, B. Kütay)

MSC 434 Chamber Music VIII
Analytic analysis and interpretation of the contemporary chamber music repertoire consisting of compositions by Dvorak, Shostakovich, Ravel, Debussy, Webern, Bartok, Saygun, Erkin. Credit units: 3 ECTS Credit Units: 6, Prerequisite: MSC 433. Aut (Staff) Spr (Staff)

MSC 451 Singing Voice VII
Credit units: 5 ECTS Credit Units: 11, Prerequisite: MSC 352. Aut (K. Davran, Z. M. Gökşül, G. Şekeranber)

MSC 452 Singing Voice VIII
Credit units: 5 ECTS Credit Units: 11, Prerequisite: MSC 451. Spr (K. Davran, Z. M. Gökşül, G. Şekeranber)

MSC 453 Opera Studies III
Cornerstone works of opera repertoire are performed in collaboration with Bilkent Youth Symphony Orchestra. Credit units: 1 ECTS Credit Units: None, Prerequisite: MSC 254. Aut (G. Çeliktas, B. Hoinic)

MSC 454 Opera Studies IV
Cornerstone works of opera repertoire are performed in collaboration with Bilkent Youth Symphony Orchestra. Credit units: 1 ECTS Credit Units: None, Prerequisite: MSC 453.

MSC 455 Opera Studies V
Cornerstone works of opera repertoire are performed. Credit units: 1 ECTS Credit Units: 1, Prerequisite: MSC 454. Aut (G. Çeliktas, B. Hoinic)

MSC 460 Opera Studies VI
Cornerstone works of opera repertoire are performed. Credit units: 1 ECTS Credit Units: 1, Prerequisite: MSC 459. Spr (G. Çeliktas)

MSC 473 Contemporary Turkish Music
Introduction to the historic development of the national art in general from the Independence War until present. A brief look in to the Revolutions of Ataturk from the artists' point of view. Musical creativity of various Turkish composers. Observations on Turkish folkloric materials and their transformations in the works of the "Turkish Five" union and other Turkish composers. Turkish composers following different currents Credit units: 2 ECTS Credit Units: 3, Prerequisite: MSC 374. Aut (Y. Aydın)

MSC 901 Music Appreciation I
Credit units: 3 ECTS Credit Units: 5. Aut (T. T. Yayalar)

MSC 903 Ear Training for Non-Majors I
Fundamental properties of sound, elementary acoustics. Basic structural elements of music. Music notation: time and pitch, rhythm, meter, tempo, musical time, staff, solfege syllables, accidentals. Designation of pitch, duration, tempo, expressions and dynamics. Intervals and scales. Methods of musical dictation: Basic reading skills. One part solo solfege. sol and Fa keys. Credit units: 2 ECTS Credit Units: 4. Aut (Staff)

MSC 904 Ear Training for Non-Majors II
Chords. Designation of chords. Written and aural exercises on these subjects. Dictation of two period one-part, two-part 16 measures dictees containing mixed rhythms, syncopation. Introduction to collective solfege. The solo and collective musical reading and simultaneous sight singing of repertoire consisting of these musical criteria. Credit units: 2 ECTS Credit Units: 4. Aut (Staff) Spr (Staff)

MSC 911 Individual Music Studies
To aid the multi-disciplinary education aim of the University, the instrument courses are offered to all non-majors as elective courses. Students wishing to enroll go through an admission process in which their music abilities are examined. The course is offered for various instruments including flute, clarinet, trumpet and trombone. Credit units: 2 ECTS Credit Units: 4. Aut (A. Bağırov, S. Bezhani, F. Gülmehtem, K. Koniarov, A. Mıdırğun, R. Zamanov, Z. Zempleni)

MSC 912 Individual Music Studies II
To aid the multi-disciplinary education aim of the University, the instrument courses are offered to all non-majors as elective courses. Students wishing to enroll go through an admission process in which their music abilities are
examined. The course is offered for various instruments including flute, clarinet, trumpet and trombone. Credit units: 2 ECTS Credit Units: 4, Prerequisite: MSC 911. Aut (A. Bağirov, G. Şekeranber, R. Zamanov)

MSC 921 | Individual Music Studies III
To aid the multi-disciplinary education aim of the University, the instrument courses are offered to all non-majors as elective courses. Students wishing to enroll go through an admission process in which their music abilities are examined. The course is offered for various instruments including flute, clarinet, trumpet and trombone. Credit units: 2 ECTS Credit Units: 4, Prerequisite: MSC 912. Aut (S. Bezhani, K. Davran, A. Möhsunoğlu, M. Turdiev)

MSC 922 | Individual Music Studies IV
To aid the multi-disciplinary education aim of the University, the instrument courses are offered to all non-majors as elective courses. Students wishing to enroll go through an admission process in which their music abilities are examined. The course is offered for various instruments including flute, clarinet, trumpet and trombone. Credit units: 2 ECTS Credit Units: 4, Prerequisite: MSC 921. Aut (S. Bezhani, Z. M. Gökoğlu, F. Gülmehmnet)

MSC 931 | Individual Music Studies V
To aid the multi-disciplinary education aim of the University, the instrument courses are offered to all non-majors as elective courses. Students wishing to enroll go through an admission process in which their music abilities are examined. The course is offered for various instruments including flute, clarinet, trumpet and trombone. Credit units: 2 ECTS Credit Units: 4, Prerequisite: MSC 922. Aut (E. N. Aykal, G. Şekeranber)

MSC 932 | Individual Music Studies VI
To aid the multi-disciplinary education aim of the University, the instrument courses are offered to all non-majors as elective courses. Students wishing to enroll go through an admission process in which their music abilities are examined. The course is offered for various instruments including flute, clarinet, trumpet and trombone. Credit units: 2 ECTS Credit Units: 4, Prerequisite: MSC 931.

MSC 941 | Individual Music Studies VII
To aid the multi-disciplinary education aim of the University, the instrument courses are offered to all non-majors as elective courses. Students wishing to enroll go through an admission process in which their music abilities are examined. The course is offered for various instruments including flute, clarinet, trumpet and trombone. Credit units: 2 ECTS Credit Units: 4, Prerequisite: MSC 932.

MSC 950 | Music of Igor Stravinsky
Studies on the composer's works with consideration of four different periods: Early pieces, Russian Phase, Neo-Classicism and Serialism. A broad review of the Western history of music thorough Stravinsky's face to face dialogues with Machaut, Monteverdi, Giovanni Gabrieli, Gesualdo, Bach, Mozart, Pergolesi, Gluck, Beethoven, Tchaikovsky and Verdi. During this unique voyage the student witnesses his philosophical questions on ontology, expressionism and Apollon/Dionysos controversy. Credit units: 3 ECTS Credit Units: 4.

MSC 952 | Studies on Modality
A clear definition of modality provides/requires a deeper understanding of tonality. Review of the theory and ear training of modes. Analyzing examples from Machaut, Dufay, Josquin, Greig, Mussorgsky, Debussy, Bartok, and Samuel Barber. Credit units: 3 ECTS Credit Units: 4, Prerequisite: MSC 172.

MSC 958 | Modern Music After 1945
A socio-historical view on the music of post-war generation in Europe and U.S.A. Focus on the major trends (such as of avant-gardism) and technical developments in music (such as serialism) of the related period. Credit units: 3 ECTS Credit Units: 2.

MSC 963 | Music Theory in Performance Practice
Research on relations between performance and analysis. Opening new possibilities for such interaction. Analysis for performance through the study of formal models and practice with performers. Performance practice in relation to historical and contemporary context. Lecture recitals. Credit units: 3 ECTS Credit Units: 4, Prerequisite: MSC 272.

MSC 970 | Research Diary
Students record their observations, questions and a list of sources as a diary during a period of a research on a certain topic for the whole semester. Suggested topics: - Evaluation of keyboard instruments, - History of concerto, - Reception of Litzl's symphonic poems, - Quotation in different periods, - Rhetoric in Baroque and classical periods. Credit units: 3 ECTS Credit Units: 3.

MSC 971 | Gestalt Approach to Music
Exercises an awareness, phenomenology, expression, impression. Learning to discover ways to be in the moment while performing. Developing a holistic understanding and growing through genuine contact made through forms of expression. Understanding the relation between contact and performance. Exercises an metaphor making and how it effects the interpretation. Credit units: 3 ECTS Credit Units: 3.

MSC 972 | Gestalt Approach to Music II
The aim of Gest-2 is to adapt the skills which are developed in the first months to express oneself through music. Students experiment and discover ways to be in the moment while they perform. Having developed new ways of
expression and communication in Gest-1, it is expected now to engage in their profession with the embodied skills of awareness, contact and expression. Students are encouraged to risk uniqueness and the new in themselves, to express NOT to impress but to make themselves “present” as they are, through their profession. Working with shame, introjects about making music, and several other interruptions to contact are theoretical and group process themes to develop. Credit units: 3 ECTS Credit Units: 6. Prerequisite: MSC 971.

GRADUATE COURSES

MSG 500  Department Seminar
Weekly meetings hosted by faculty with visiting artists, scholars. Master-classes, workshops, presentations focusing on predetermined subjects. Each graduate student also prepares a presentation. Credit units: None ECTS Credit Units: None. Aut (Staff) Spr (O. Türkmen)

MSG 511  Music Performance and Interpretation
Studies and practices on performance and interpretation of selected repertoire from all genres and periods involving major field. Course incorporates a wide range of repertoire such as solo, sonata, concerto as well as chamber music, ensembles, orchestral solos and excerpts for instrument performance majors. Lied, complete roles in operas for vocal majors as included in departmental repertoire lists. Credit units: 3 ECTS Credit Units: 6. Aut (E. Akyol, T. Ganoğlu, Z. M. Gökçoğlu, E. Tandoğan)

MSG 513  Music Composition
Music composition courses are taught individually. This provides flexibility in adapting to the interest and needs of each student. Composition courses have several purposes: to equip the student with necessary technical skills to develop their musical ideas, to help them get acquainted with the most recent compositional styles, and supply guidance with their projects. Each semester students will produce an original composition, culminating in a portfolio at the end of their Ph.D. studies. Credit units: 3 ECTS Credit Units: 6.

MSG 515  Music Theory
Musical analysis and writing skills of modal and tonal music subjects are taught individually. Consideration of varied analytical methods of musical analysis and history of music theory from Aristoxenus till Stockhausen on specialized topics determined by faculty. These provide to comprehend various research methods, analytical skills, writing skills and stylistic features of the related era on different perspectives. Credit units: 3 ECTS Credit Units: 6. Spr (T. T. Yayalar)

MSG 517  Tonal Music Topics and Analysis
Musical analysis of tonal music in the broadest sense, covering examples from the 17th century to the first decades of the 20th century. Consideration of varied analytical methods of musical analysis, emphasis on Schenkerian and Riemannian approaches on specialized topics determined by the faculty. Credit units: 3 ECTS Credit Units: 6.

MSG 521  Masters Lecture Recital
Students are expected to prepare and perform a major recital. The recital is preceded by a lecture by the student on works to be performed. Proposals for the lecture recital program are prepared by the student together with their respective advisers. Students are expected to submit their proposals to the department board upon successful completion of MSG 511 or MSG 513 depending on their majors. Masters Lecture Recital must incorporate a varied repertoire as well as chamber music repertoire concerning the major instrument or field. Course may only be added upon the consent of the advisor and the final approval of the department board of the lecture concert program proposal. Advisor and department board may choose to revise the student’s proposal. Masters lecture recitals are held open to public. Assessment and grading is done by a jury, selected by the department board. Credit units: 3 ECTS Credit Units: 6.

MSG 525  Bilkent Ensembles
Students actively participate in concert projects of one or more of Bilkent University’s music ensembles such as Bilkent Symphony Orchestra, Bilkent Youth Quartet, Bilkent Chorus and Bilkent Modern Ensemble throughout the academic semester. Credit units: 3 ECTS Credit Units: 6.

MSG 527  Masters Theory Presentation
Students are expected to finalize and present part or all of their papers stated in MSG 515 at class(es) decided upon with the consent of the student’s advisor. Credit units: None ECTS Credit Units: None.

MSG 530  Master Professional Recital
Students are expected to repeat part or all of the recital stated in MSG 521 at a public venue decided upon with the consent of the student’s advisor. Credit units: None ECTS Credit Units: None.

MSG 531  Music Performance and Interpretation
Studies and practices on performance and interpretation of selected repertoire from all genres and periods involving major field. Course incorporates a wide range of repertoire such as solo, sonata concerto as well as chamber music, ensembles, orchestral solos and excerpts as included in departmental repertoire lists for performance majors. Credit units: 3 ECTS Credit Units: 6.
MSG 535  Bilkent Ensembles
Students actively participate in concert projects of one or more of Bilkent University's music ensembles such as Bilkent Symphony Orchestra, Bilkent Youth Quartet, Bilkent Chorus and Bilkent Modern Ensemble throughout the academic semester. Credit units: 3 ECTS Credit Units: 6.

MSG 537  Studies in History of Western Music
Evolution of different musical genres through history. Advanced discussions on the genesis, development and contemporary applications of the specific genres. Credit units: 3 ECTS Credit Units: 6. Aut (O. Türkmen)

MSG 541  Masters Graduation Concerts
Students are expected to prepare and perform a major recital and a graduation concert. The recital is preceded by a lecture by the student on works to be performed. Proposals for the graduation recital and concert program are prepared by the student together with their respective advisers. Students are expected to submit their proposals to the department board upon successful completion of MSG 531 or MSG 513 and MSG 530. Masters Lecture Recital must incorporate a varied repertoire as well as chamber music repertoire concerning the major instrument. Course may only be added upon the consent of the advisor and the final approval of the department board of the lecture concert program proposal. Advisor and department board may choose to revise the student's proposal. Masters graduation recitals and concerts are held open to public. Assessment and grading is done by a jury, selected by the department board. Credit units: 3 ECTS Credit Units: 6. Spr (T. T. Yayalar)

MSG 700  Department Seminar
Weekly meetings hosted by faculty with visiting artists, scholars. Master-classes, workshops, presentations focusing on predetermined subjects. Each graduate student also prepares a presentation. Credit units: None ECTS Credit Units: None. Aut (O. Türkmen) Spr (O. Türkmen)

MSG 701  Music Performance and Interpretation
Studies and practices on performance and interpretation of selected repertoire from all genres and periods involving major field. Course incorporates a wide range of repertoire such as solo, sonata, concerto as well as chamber music, ensembles, orchestral solos and excerpts for instrument performance majors. Lied, complete roles in operas for vocal majors. All choral, ensemble and orchestral repertoire for conducting majors as included in departmental repertoire lists. Credit units: 3 ECTS Credit Units: 6, Prerequisite: MSG 511 and MSG 521. Aut (G. Azi)

MSG 703  Music Composition
Music composition courses are taught individually. This provides flexibility in adapting to the interest and needs of each student. Composition courses have several purposes: to equip the student with necessary technical skills to develop their musical ideas, to help them get acquainted with the most recent compositional styles, and supply guidance with their projects. Each semester students will produce an original composition, culminating in a portfolio at the end of their Ph.D. studies. Credit units: 3 ECTS Credit Units: 6, Prerequisite: MSG 513 and MSG 521. Aut (T. T. Yayalar)

MSG 705  Music Theory
Musical analysis and writing skills of modal and tonal music subjects are taught individually. Consideration of varied analytical methods of musical analysis and history of music theory from Aristoxenus till Stockhausen on specialized topics determined by faculty. These provide to comprehend various research methods, analytical skills, writing skills and stylistic features of the related era on different perspectives. Credit units: 3 ECTS Credit Units: 6, Prerequisite: MSG 515 and MSG 527. Aut (T. T. Yayalar)

MSG 710  Research Methods
Academic research methods. Bibliography, research and major print and electronic research tools including encyclopedias, periodical indexes, and discographies. Evaluation of each research tool's purpose, scope, strengths, and weaknesses. Discussion on style manuals and various resources for writing about music and citing sources. Methods for evaluating reference. Credit units: 3 ECTS Credit Units: 6. Spr (I. Metin)

MSG 711  Music Performance and Interpretation
Studies and practices on performance and interpretation of selected repertoire from all genres and periods involving major field. Course incorporates a wide range of repertoire such as solo, sonata, concerto as well as chamber music, ensembles, orchestral solos and excerpts for instrument performance majors. Lied, complete roles in operas for vocal majors. All choral, ensemble and orchestral repertoire for conducting majors as included in departmental repertoire lists. Credit units: 3 ECTS Credit Units: 6, Prerequisite: MSG 701. Aut (E. Akyol)

MSG 713  Music Composition
Music composition courses are taught individually. This provides flexibility in adapting to the interest and needs of each student. Composition courses have several purposes: to equip the student with necessary technical skills to develop their musical ideas, to help them get acquainted with the most recent compositional styles, and supply guidance with their projects. Each semester students will produce an original composition, culminating in a portfolio at the end of their Ph.D. studies. Credit units: 3 ECTS Credit Units: 6, Prerequisite: MSG 703.
MSG 715 Music Theory
Musical analysis and writing skills of modal and tonal music subjects are taught individually. Consideration of varied analytical methods of musical analysis and history of music theory from Aristoxenus till Stockhausen on specialized topics determined by faculty. These provide to comprehend various research methods, analytical skills, writing skills and stylistic features of the related era on different perspectives. Credit units: 3 ECTS Credit Units: 6. Spr (T. T. Vayalar)

MSG 717 New Music Topics and Analysis
Musical analysis of post-tonal music from the first half of the 20th century onwards. Concepts such as set theory, serialism, centricty and modality are incorporated. Credit units: 3 ECTS Credit Units: 6.

MSG 721 Doctoral Lecture Concert
Students are expected to prepare and perform a major concert. The concert is preceded by a lecture by the student on works to be performed and their interpretation. Students with applied majors in instrument, vocal, conducting, chamber music and composition prepare their lecture concert program proposals with their respective advisers. Students are expected to submit their proposals to the department board prior to registering for the course and course may only be registered to upon the proposal of the advisor to the department board of the lecture concert program proposal. Advisor and department board may choose to revise the student's proposal. Doctoral lecture recitals are held open to public. Assessment and grading is done by a jury selected by the department board. Department board may choose to utilize other means of assessment such as review of the performances recordings by peer or professionals in the field. Credit units: 3 ECTS Credit Units: 6.

MSG 725 Doctoral Theory Presentation
Students are expected to finalize submit their proposal for academic papers and their presentations with the consent of their respective advisers to the department board. After the assessment and grading process of papers, students present their work to public. Presentations are to be assessed by a jury selected by the department board that may include external jury member(s). Department board may choose to utilize other assessment and grading procedures including peer review and external evaluation. Credit units: 3 ECTS Credit Units: 6.

MSG 730 Doctoral Professional Recital
Students are expected to repeat part or all of the recital stated in MSG 721 at a public venue decided upon with the consent of the student's advisor. The concert is preceded by a lecture by the student on works to be performed and their interpretation. Students with applied majors in instrument, vocal, conducting, chamber music and composition prepare their lecture concert program proposals with their respective advisers. Students are expected to submit their proposals to the department board prior to registering for the course and course may only be registered to upon the proposal of the advisor to the department board of the lecture concert program proposal. Advisor and department board may choose to revise the student's proposal. Doctoral lecture recitals are held open to public. Assessment and grading is done by a jury selected by the department board. Department board may choose to utilize other means of assessment such as review of the performances recordings by peer or professionals in the field. Credit units: None ECTS Credit Units: None.

MSG 731 Music Performance and Interpretation
Studies and practices on performance and interpretation of selected repertoire from all genres and periods involving major field. Course incorporates a wide range of repertoire such as solo, sonata, concerto as well as chamber music, ensembles, orchestral solos and excerpts for instrument performance majors. Lied, complete roles in operas for vocal majors. All choral, ensemble and orchestral repertoire for conducting majors as included in departmental repertoire lists. Credit units: 3 ECTS Credit Units: 6.

MSG 733 Music Composition
Music composition courses are taught individually. This provides flexibility in adapting to the interest and needs of each student. Composition courses have several purposes: to equip the student with necessary technical skills to develop their musical ideas, to help them get acquainted with the most recent compositional styles, and supply guidance with their projects. Each semester students will produce an original composition, culminating in a portfolio at the end of their Ph.D. studies. Credit units: 3 ECTS Credit Units: 6.

MSG 735 Music Theory
Musical analysis and writing skills of modal and tonal music subjects are taught individually. Consideration of varied analytical methods of musical analysis and history of music theory from Aristoxenus till Stockhausen on specialized topics determined by faculty. These provide to comprehend various research methods, analytical skills, writing skills and stylistic features of the related era on different perspectives. Credit units: 3 ECTS Credit Units: 6.

MSG 737 Contextual Perspectives in History of Western Music
Music history topics through political, philosophical, cultural and aesthetic contexts. Discussions on various debates on different contextual perspectives. Credit units: 3 ECTS Credit Units: 6. Aut (I. Metin)
MSG 741  Doctoral Proficiency Concert
Students are expected to prepare and perform a major recital and a graduation concert. The recital is preceded by a lecture by the student on works to be performed. Students with applied majors in instrument, vocal, conducting, chamber music and composition prepare their lecture recital and concert program proposals with their respective advisers. Students are expected to submit their proposals to the department board prior to registering for the course and course may only be registered to upon the proposal of the advisor to and the final approval by department board of the lecture concert program proposal. Advisor and department board may choose to revise the student's proposal. Doctoral lecture recitals are held open to public. Assessment and grading is done by a jury selected by the department board. Department board may choose to utilize other means of assessment such as review of the performances recordings by peer or professionals in the field. Credit units: 3 ECTS Credit Units: 6, Prerequisite: (MSG 730 and MSG 731) or (MSG 730 and MSG 733).

MSG 745  Doctoral Proficiency Theory Presentation
Students are expected to finalize submit their proposal for academic papers and their presentations with the consent of their respective advisors to the department board. After the assessment and grading process of papers, students present their work to public. Presentations are to be assessed by a jury selected by the department board that may include external jury member(s). Department board may choose to utilize other assessment and grading procedures including peer review and external evaluation. Credit units: 3 ECTS Credit Units: 6, Prerequisite: MSG 725 and MSG 735.

MSG 802  Theoretical Studies in Tonal Music
Analysis of music from the tonal repertoire by emphasis on structural aspects of each individual work. With discussions focusing on different analytical perspectives such as formalist methods, hermeneutics, phenomenology, Neo-Riemannian and cultural studies. Credit units: 3 ECTS Credit Units: 6.

MSG 804  History of Tonal Music Theory
From Rameau to beyond: This course will examine different scale-degree and functional approaches to tonal harmony, discussion of seminal theoretical texts (Rameau, Sechter, Riemann, Schenker etc.), we will work on comparative music analyses to explore different conceptions of harmonic space and their limits. Credit units: 3 ECTS Credit Units: 6.

MSG 806  Introduction to Schenkerian Analysis
This course provides an introduction to the theories and analytical methods of Heinrich Schenker and his followers through the analysis of selected works. Credit units: 3 ECTS Credit Units: 6.

MSG 808  Theoretical Studies in Post Tonal Music
Music from 1900 and onwards in a holistic perspective that encompasses broad analytical, structural and cultural aspects of music. Credit units: 3 ECTS Credit Units: 6.

MSG 810  Perspectives in Musical Analysis
This is an advanced analysis class focusing on three much-analyzed works from the repertoire: Eroica Symphony, Tristan Prelude and Rite of Spring. We will look at the analytical literature for each piece and discuss different theoretical perspectives developed about these pieces throughout the history. Credit units: 3 ECTS Credit Units: 6, Spr (O. Türkmen)

MSG 812  Music of the Last Decade
This is a course concentrating on music that is written in the last ten years. The goal of the course is to contextualize recent trends in composition and develop a framework necessary to understand and analyze representative examples from this period. Credit units: 3 ECTS Credit Units: 6.

MSG 814  Opera in the 20th Century
This is a seminar course examining the 20th century opera repertoire. We will investigate how the opera genre has transformed in the 20th century by looking at works like Pelléas et Mélisande, Bluebeard’s Castle, Lulu, Saint François d’Assise, Le Grand Macabre, Einstein on the Beach, Punch and Judy. We will specifically investigate the conventions that the modern composers have inherited from the past, to reject or re-embrace. Credit units: 3 ECTS Credit Units: 6.

MSG 816  Late Modernism and the Concerto
This seminar will examine concerto genre in the late modernist music. The course will focus on five major composers who have shown interest in the genre: Ligeti, Xenakis, Carter, Lachenmann and Birtwistle. While analysis of individual pieces will constitute part of the class, we will also bear on some general concepts such as virtuosity, accompaniment, role of soloist(s), customized orchestra, formal strategies etc.... Credit units: 3 ECTS Credit Units: 6.

MSG 818  Quotation, Transcription and Musical Recycling
Writing music on pre-existing material has always been an important concept for composers. In this course we will examine the ways musicians have engaged and used existing musical materials. We will discuss various compositional, aesthetics, cultural and even ethical implications of such methods. The main focus of the course will be the 20th century repertoire; we will nevertheless investigate the previous historical approaches as well. Credit units: 3 ECTS Credit Units: 6.
MSG 820 Microtonality
An in-depth investigation of different microtonal usages and techniques in composition. Topics will range from just intonation to different types of extended equal temperaments. We will also examine different practical strategies developed by composers in writing microtonal music. Each student will compose a piece using techniques covered in class. Credit units: 3 ECTS Credit Units: 6.

MSG 822 Interactive Music
Intensive work on live signal processing. We will work exclusively with Max/MSP and investigate possible ways of interaction between instruments and electronics. Each student will compose a live interactive piece involving computers and acoustic instruments. Credit units: 3 ECTS Credit Units: 6.

MSG 824 Algorithmic and Computer Assisted Composition
This course is about different methods of algorithmic composition and ways to create them using computers. We will investigate how music technology can enhance and develop the musical ideas of composers, focusing on the creative processes involved in algorithmic and computer-assisted composition. We will examine works by Cage, Xenakis, Ferneyhough and Murail. We will work exclusively with software such as AudioSculpt and Open Music. Each student will compose a piece using the methods covered in the class. Credit units: 3 ECTS Credit Units: 6.

MSG 826 Spectral Music
The exploration of timbre became increasingly significant throughout the 20th century, with some composers making it the essence of their music. This course will investigate these different approaches to timbre in composition. It will include but not limited to the French Spectral movement. It will also teach necessary technical skills to work in these kinds of styles. Each student will write a piece of music using skills and techniques acquired during class. Credit units: 3 ECTS Credit Units: 6.

MSG 828 Complexity Versus Simplicity
20th century music has seen the most extremes both in simplicity and complexity. This course aims to question rationale behind these stylistic developments. We will look at the aesthetic and cultural dynamics behind different styles such as minimalism, new simplicity, 60s avant-garde and new complexity. We will compare and contrast each trend and study representative works. Credit units: 3 ECTS Credit Units: 6.

MSG 830 Visions of Messiaen
Traité de Rythme, de Couleur, et d’Ornithologie, a compilation of Messiaen’s writings in 7 volumes that takes the center stage of course, is thought of as being the summa summa summum regarding his creative, theoretical and religious Weltanschauung. Course contents are designed each semester anew including certain passages of the Traité and a selection of related music works by him and/or others, taking into account the diverse output of some Messiaen scholars -active in English, French and German speaking worlds- like Siglind Bruhn, Peter Hill and Paul Griffiths. Credit units: 3 ECTS Credit Units: 6.

MSG 832 Symphony after Beethoven
Beethoven’s 9th symphony, from its very first performance on, leads to a complicated reception history. Some major reactions, early and after, can be cited as follows: crisis of symphony in the German speaking culture domain, Berlioz’s symphonie fantastique and Liszt’s 12 Poèmes symphoniques, drame lyrique of Wagner -who considers himself as being brought to “the other side of the red sea” through Beethoven-, music-esthetic considerations like Brendel’s Zukunftsmusik and the schism among absolute and programmatic music according to Hanslick, monumental symphonies by Bruckner and Mahler, symphonists and reactions to symphonic forms during the 20th century etc. Essayistic involvement in German and French by some 19th century composers like Schumann, Liszt, Wagner and Berlioz deserves a special attention regarding the problematic. Topics, readings and work selection of course are refreshed as per the specific phenomenon im Visier of current semester. Credit units: 3 ECTS Credit Units: 6.

MSG 834 With or Without Wagner
Stage music after Tristan to our day. An all-embracing historical discourse on the 19th century music disregarding the impact of Wagner’s Tristan und Isolde is hard to imagine. Wagner himself, his contemporaries, and following composer generations involved with stage music have thenceforth to grapple with that work and its reception. The design of course regards Wagner’s output, before all, as a socio-historical demarcation line in the framework of the genre and takes each semester a different single opera or music theater work in hand, or, in some cases, a group of works clustered around a single thematic and/or problematic. Credit units: 3 ECTS Credit Units: 6.

MSG 836 Chamber Music
Chamber music course of various epochs and genres, vocal and/or instrumental styles deals with chamber music and its various aspects with respect to varied criteria. Selection of music works to be considered depends on genre and/or form, Besetzung, epoch, style, or (a group of) composer(s). Credit units: 3 ECTS Credit Units: 6.

MSG 838 The Genre of Concerto
Dynamics of the dispute between individual and community. Course deals with the genre concerto and its various aspects, each semester with respect to different criteria. Selection of music works to be considered depends on soloist instrument(s) and/or accompanying Besetzung, epoch, style, or (a group of) composer(s). Credit units: 3 ECTS Credit Units: 6.
Thought, Music and Arts
As a cross and interdisciplinary undertaking the course undertakes to construct links among music and extra-musical domains of thought, the latter dealing with music or not, such as ethics, aesthetics, philosophy, sociology, psychology, cultural studies, gender studies, political sciences, literature and theory of literature, film theory, domains of theoretical and/or practical occupation with arts other than music etc. Each semester, topics, readings and work selection of course are refreshed as per the specific phenomenon im Visier that may not be merely restricted to the western culture domain and/or to “classical music” at all. In that respect diverse fields of music - e.g. Classical Turkish Music, Jazz, progressive rock etc. - can also be imaginable as main course content. Non-faculty participants are also welcome except in cases, corresponding to the theme span of current semester, where a professional education in music and/or experience in musical practice are a must. Credit units: 3 ECTS Credit Units: 6.

The West and The Rest
Course problematizes the activity of the exterritorial composer. It can be asserted that the western serious music has established itself as the main reference point for other musical domains, peu à peu, after the French Revolution. Course attempts to problematize the self-styled and auto-centralizing qualities of western thought of music on the one hand and discourses of identity of the non-western composers on the other. Considerations of generally extra-musical fields of contemporary social thought and of diverse authors such as Lévinas, Adorno, Derrida, Deleuze, oriental and colonial studies, cultural and gender studies etc. are vital part of course. On the empirical side presents New Turkish Music the main subject matter to be tackled. Credit units: 3 ECTS Credit Units: 6.

Ph.D. Dissertation
Credit units: None ECTS Credit Units: None, Prerequisite: MSG 741 or MSG 745. Aut (I. Metin)
## DEPARTMENT OF PERFORMING ARTS

K. Korad (Acting Chair), J. E. Hale, T. T. Yayalar.


### CURRICULUM

#### ACTING OPTION

<table>
<thead>
<tr>
<th>FIRST YEAR</th>
<th>Credits / ECTS Credits</th>
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</thead>
<tbody>
<tr>
<td><strong>Autumn Semester</strong></td>
<td></td>
</tr>
<tr>
<td>ENG 101 English and Composition I</td>
<td>3 / 6</td>
</tr>
<tr>
<td>GE 100 Orientation</td>
<td>1 / 1</td>
</tr>
<tr>
<td>MSC 901 Music Appreciation I</td>
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<td>MSC 903 Ear Training for Non-Majors I</td>
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### SECOND YEAR

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### THIRD YEAR

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### Course Descriptions

**UNDERGRADUATE COURSES**

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**FOURTH YEAR**

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**COURSE DESCRIPTIONS**

**THR 101 Fundamentals of Acting I**

This course is an introduction to the elements of performance, including exercises in concentration, sensory awareness, relaxation, communication, imagination, observation. It is based on the development of theatrical creativity through objectives, obstacles, action, conflict, spontaneity. It aims to develop an understanding of the dramatic situation. Credit units: 4 ECTS Credit Units: 8. Aut (C. Emüler, J. E. Hale, E. Küçükkmürçü)

**THR 102 Fundamentals of Acting II**

This module is the continuation of Fundamentals of Acting I and it emphasizes developing creative expression through theatre exercises, improvisations and scenes. It aims at preparing and presenting scenes in class, preparing written scenes and character analyses, attending plays, and writing performance critiques. Credit units: 4 ECTS Credit Units: 8. Prerequisite: THEA 101 or THR 101. Spr (J. E. Hale, E. Küçükkmürçü)

**THR 103 Voice and Speech I**

Devoted to the examination and practice of the basic principles of breathing, resonance, articulation, diaphragm support, pitch, rhythm and expressiveness, placement and diction. Credit units: 3 ECTS Credit Units: 6. Aut (Ö. Ersönmez)

**THR 104 Voice and Speech II**

The course aims to help students integrate voice, breath, and text. It concentrates on the formation of the individual sounds of spoken Turkish and the development of ability to speak clearly, expressively and without impediments. Credit units: 3 ECTS Credit Units: 6. Prerequisite: THEA 103 or THR 103. Spr (Ö. Ersönmez)

**THR 105 Movement and Combat I**

The course is based on the fundamentals of theatrical stage movement for actors, rooted in the techniques of Allan Wayne Work and developmental movement patterns. Students learn exercises to increase strength, flexibility, coordination, and stamina. Credit units: 3 ECTS Credit Units: 7. Aut (A. Tayla, P. N. Tezcan)

**THR 106 Movement and Combat II**

The course continues the fundamentals of theatrical stage movement for actors begun in THR 105. In addition to advancing in their knowledge and mastery of these exercises, students apply these principles to individual and ensemble movement-improvisation. Credit units: 3 ECTS Credit Units: 7. Prerequisite: THEA 107 or THR 105. Spr (A. Tayla, P. N. Tezcan)

**THR 107 Dance I**

The module introduces students to fundamentals of contemporary modern dance technique, rooted in the techniques of Allan Wayne Work and real-time composition methods. Credit units: 2 ECTS Credit Units: 3. Aut (P. N. Tezcan)

**THR 108 Dance II**

This module places introduces students to the fundamentals of the Jean Hamilton Floor-Barre Technique, as well as places more emphasis on creating original dance choreography. Credit units: 2 ECTS Credit Units: 3. Prerequisite: THEA 144 or THR 107. Spr (P. N. Tezcan)
THR 111 Phonetics I
The aim of the course is to teach the students the basic rules of clear articulation concerning the speech sounds and to analyze the function and also the movement of speech organs in order to attain perfect diction as an actor. Credit units: 2 ECTS Credit Units: 4, Aut (F. N. Ekmekcioğlu)

THR 112 Phonetics II
The course mostly focuses upon the articulation of phonemes (vowels and consonants) and the importance of stress and intonation while working on certain poems and theatrical texts. Credit units: 2 ECTS Credit Units: 4, Prerequisite: THR 111. Spr (F. N. Ekmekcioğlu)

THR 201 Acting I
The course aims to explore experientially and analytically the foundation of the acting process based on Stanislavski’s System and The Method of Physical Actions. It is based on characterization, roles, special problems, and application of acting techniques through exercises and two-character scenes from the Ancient Greek and Realist plays. Credit units: 4 ECTS Credit Units: 8, Prerequisite: THEA 102 or THR 102. Aut (C. Emüler, E. Kıcükķkımırçu)

THR 202 Acting II
Sequel to Acting I. The course aims to explore experientially and analytically the foundation of the acting process based on Stanislavski’s System and The Method of Physical Actions. It is based on characterization, roles, special problems, and application of acting techniques through exercises and three or more character scenes from the Ancient Greek and Realist plays. Credit units: 4 ECTS Credit Units: 8, Prerequisite: THEA 201 or THR 201. Spr (C. Emüler, M. Keskin Bayur, E. Kıcükķkımırçu)

THR 203 Voice and Speech III
The course is a continuation of the first-year work, which now becomes integrated into the rehearsal of the second-year acting studio. Development of the student’s vocal instrument as an integrated organic function of self and character. Credit units: 3 ECTS Credit Units: 6, Prerequisite: THEA 104 or THR 104. Aut (Ö. Ersönmez)

THR 204 Voice and Speech IV
Credit units: 3 ECTS Credit Units: 6, Prerequisite: THEA 203 or THR 203. Spr (Ö. Ersönmez)

THR 205 Movement and Combat III
Building upon the techniques learned in THR 105-106, students in this course combine these techniques into compositional exercises based on Mary Overlie’s Viewpoints. Credit units: 3 ECTS Credit Units: 7, Prerequisite: THEA 108 or THR 106. Aut (A. Tayla, P. N. Tezcan)

THR 206 Movement and Combat IV
Building upon the techniques learned in THR 205, students in this course explore imagination, character, and story within non-verbal physical theater. Credit units: 3 ECTS Credit Units: 7, Prerequisite: THEA 207 or THR 205. Spr (A. Tayla, P. N. Tezcan)

THR 227 History of Theater I: Origins to Renaissance
Through a combination of lecture and discussion the course is an exploration of the history of world theatre from the Greeks to Shakespeare. Students learn about staging practices, the cultural use of theatrical space, the changing status of theatre within various cultures, and the role of the audience, the playwright, and the actor in theatrical performance. Credit units: 3 ECTS Credit Units: 5. Aut (Ö. Özer)

THR 228 History of Theater II: Renaissance to 20th Century
A study of development of western theatre from the 17th century to the 20th century. The course aims to emphasize the idea of theatre, the development of dramatic forms, the evolution of theatre architecture, the relationship between actor and audience and productions of these historical periods in the western theatre. Credit units: 3 ECTS Credit Units: 5. Aut (Ö. Özer)

THR 301 Acting III
This course aims to cover historical theories and techniques of styles of acting: from the neoclassical periods to contemporary styles. Credit units: 4 ECTS Credit Units: 8, Prerequisite: THEA 202 or THR 202. Aut (J. E. Hale, M. Keskin Bayur, P. N. Tezcan)

THR 302 Acting IV
Credit units: 4 ECTS Credit Units: 8, Prerequisite: THR 301. Spr (J. E. Hale, İ. Yazar)

THR 303 Voice and Speech V
The course focuses on building power and range by developing breath muscles of the ribs and diaphragm, limbering the resonators of the chest, mouth, teeth, sinus, nasal, and skull, and finally, works on the entire range of the voice. It aims to help students work through spoken text through their own creative writing, sonnets, and monologues, dialogue, which are all rehearsed and performed. Credit units: 3 ECTS Credit Units: 6, Prerequisite: THEA 204 or THR 204. Aut (Ö. Ersönmez)
THR 327  History of Theater III: 20th Century
Focusing primarily on the most significant plays and playwrights of the 20th century, the course is an exploration of the relationship between actor and audience and between “theatre” and the larger culture in an effort to determine what theatre means and why it is important in the modern world.  
*Credit units: 3 ECTS Credit Units: 5.*  
Aut (Ö. Özer)

THR 331  Textual Interpretation and Analysis I
A close study of dramatic texts and source material, with emphasis on dramaturgical praxis, including an overview of the history/theory of dramaturgy from Ancient Greece to Renaissance.  
*Credit units: 3 ECTS Credit Units: None.*

THR 332  Textual Interpretation and Analysis II
The course aims to make analysis of dramatic texts, with special emphasis on play structure, plot, character, dialogue, ideas, and various other elements essential to effective theatrical interpretation and realization from Renaissance to Realism.  
*Credit units: 3 ECTS Credit Units: 4, Prerequisite: THR 331.*

THR 333  On Camera Acting
This course offers instruction and practice in the basics of acting for the camera and will assist students in making the transition from the theatre to the screen. It will introduce students to on-camera performance in various genres, and will address the technical requirements of TV and film acting such as playing to the camera, shooting out of sequence, blocking, and other production considerations. The course includes significant on-camera scene-work, character development, and script analysis. The assignments will include live tapings of selected materials. Through exercises and scene study, this course will familiarize students with on-camera acting techniques and expand each performer’s range of emotional, intellectual, physical, and vocal expressiveness for the camera.  
*Credit units: 3 ECTS Credit Units: 6.*  
Spr (J. E. Hale)

THR 428  History of Turkish Theater
This module focuses on the changes and evolution of Turkish Theatre from 1839 to the present and Traditional Turkish Theatre.  
*Credit units: 3 ECTS Credit Units: 4, Prerequisite: THEA 219 or THEA 220 or THEA 319 or THR 227.*  
Spr (Ö. Özer)

THR 431  Textual Interpretation and Analysis III
A survey of some diverse ways of analyzing scripts for dramatic production. The course aims to define different roles and different tools, and aims to choose from a veritable smorgasbord of methods. It is based on theatrical interpretation and realization from Realism to Avant-garde. The course explores critical methods based on psychoanalysis, cognitive science, Marxism, the various feminisms, and historicism.  
*Credit units: 3 ECTS Credit Units: 4.*  
Aut (Ö. Özer)

THR 432  Textual Interpretation and Analysis IV
A survey of some diverse ways of analyzing scripts for dramatic production. This module aims to define different roles and different tools, and aims to choose from a veritable smorgasbord of methods. It is based on theatrical interpretation and realization from Realism to Avant-garde. The course explores critical methods based on psychoanalysis, cognitive science, Marxism, the various feminisms, historicism.  
*Credit units: 3 ECTS Credit Units: 4.*  
Spr (Ö. Özer)

THR 451  Senior Project I
The course requires working with a director and being in whole process to constitute a play.  
*Credit units: 5 ECTS Credit Units: 12,*  
Aut (J. E. Hale, M. Keskin Bayur)

THR 452  Senior Project II
Sequel to Senior Project I. The course requires working with another director and being in whole process to constitute a play.  
*Credit units: 5 ECTS Credit Units: 12,*  
Spr (Staff)

THR 502  Theatre Appreciation
This is a one semester survey course for the non major of the history of western theatre.  
*Credit units: 3 ECTS Credit Units: None.*
The Faculty of Science comprises four academic departments:

- Chemistry
- Mathematics
- Molecular Biology and Genetics
- Physics

The Departments of Chemistry, Mathematics, Molecular Biology and Genetics, and Physics offer both graduate and undergraduate programs leading to B.S., M.S. and Ph.D. degrees. In addition, there is an interdisciplinary graduate program that offers M.S. and Ph.D. degrees in the area of Materials Science and Nanotechnology.

At the undergraduate level, the Faculty admits a small number of highly qualified students to each program. The undergraduate curricula are designed to prepare the students for graduate study by providing a strong background in the general area of study with further opportunities of developing a deeper knowledge in various areas of emphasis.

The graduate programs aim to develop students into scientists who can pursue original and creative research. Graduate education in the Faculty is an inseparable part of the research activity which aims to produce significant scientific output at the international level.

The faculty also offers a number of service courses to students from other faculties.

**ACADEMIC STAFF**

**Mehmet Akçay**, Instructor  

**Engin Umut Akkaya**, Professor  
Ph.D., Chemistry, The Ohio State University, Columbus 1989. Molecular and Supramolecular Synthetic Chemistry and Exploration of Emerging Functions.

**Deniz Atasoy**, Assistant Professor  
Ph.D., Neuroscience, University of Texas - Southwestern Medical Center, 2007. Synaptic cell adhesion and functional architecture of CNS synapses.

**Atilla Aydınlı**, Professor  
Ph.D., Condensed Matter Physics, University of Virginia, 1981. Raman and photoluminescence in compound semiconductor structures, physics of nanostructures, physics and technology of optoelectronic devices, surface physics, beam-solid interactions.

**Laurence John Barker**, Associate Professor  
Ph.D., Mathematics, Oxford University, 1992. Finite groups, representation theory, local and clifford theory, G-algebras, G-posets.

**Mehmet Bayındır**, Associate Professor  
Ph.D., Physics, Bilkent University, 2002. Microstructured fibers and fiber devices, photonic band gap materials, left-handed metamaterials, materials for infrared optics, synthetic optoelectronic devices, nonlinearity in amorphous semiconductors, nanophotonics, fiber based sensors

**Ceyhun Bulutay**, Associate Professor  

**Rengül Cetin-Atalay**, Associate Professor  
Salim Çıracı, Professor

Ömer Dağ, Professor

Müruvet Güneş Davenport, Instructor
Ph.D., Electronics, Birmingham University, 1982. Underwater acoustics, applied mathematics.

Savaş Dayanık, Associate Professor

Alexandre Degtiarev, Associate Professor

Hilmi Volkan Demir, Associate Professor
Ph.D., Electrical Engineering, Stanford University, 2004. Light-emitting diodes (LEDs), photovoltaics (PV), semiconductor nanocrystal optoelectronics, energy transfer driven devices and sensors, nanoparticles/nanocomposites, nanophotonics, RF sensing bioimplants and medical devices.

Çağlar Elbükên, Assistant Professor

Ebru Erbay, Assistant Professor

Zeki Atilla Erçelebi, Professor
Ph.D., Condensed Matter Physics, Middle East Technical University, 1980. Polaron and bipolarons, electron-phonon interactions, excitons, low dimensional systems.

Hasan N. Erten, Professor
Ph.D., Nuclear Chemistry, Massachusetts Institute of Technology, 1971. Nuclear and radiochemistry, nuclear fission, nuclear structure and spectroscopy, radioactive waste studies, dating of lake sediments.

Aurelian Gheondea, Associate Professor

Alexandre Goncharov, Associate Professor

Ahmet Gökalk, Senior Lecturer
Ph.D., Physics, Stanford University, 1980. Medium and High Energy Nuclear Physics, Elementary Particle Theory.

Ahmet Muhtar Güloğlu, Assistant Professor
Ph.D., Mathematics, Ohio State University, 2005. Analytic number theory, automorphic forms.
Oğuz Gülseren. Professor  
Ph.D., Condensed Matter Physics, Bilkent University, 1992. Theoretical Solid State Physics, nanoscience, metal nanowires, carbon nanotubes, exotic superconductors high pressure-high temperature properties of metals, phonons and vibrational spectra.  

Ali Osmay Güre. Assistant Professor  

İhsan Gürsel. Associate Professor  
Ph.D., Biology, Middle East Technical University, 1995. Innate immunity, immunotherapy, drug delivery, nanobiotechnology, vaccine development, biomaterials.

Metin Gürses. Professor  

Dilek Güvenç. Instructor  

Tahsin Tuğrul Hakioğlu. Associate Professor  

Balazs Hetényi. Assistant Professor  

Fatih Ömer İlday. Assistant Professor  

Margarita Manolova Kantcheva. Associate Professor  

Hakki Turgay Kaptanoğlu. Associate Professor  
Ph.D., Mathematics, University of Wisconsin, 1991. Complex analysis and operator theory in spaces of holomorphic or harmonic functions of several variables, especially in Besov spaces.

Salih Karadağ. Instructor  

Ferdi Karadraş. Assistant Professor  

Azer Kerimov. Associate Professor  

Alexandre Klyachko. Visiting Professor  
Ph.D., Mathematics, Saratov State University, 1973. Algebra, algebraic geometry, number theory, models of classical finite groups, integer and modular representations, vector-bundles and moduli spaces.

Coşkun Kocabaş. Assistant Professor  
Ph.D., Physics, University of Illinois at Urbana-Champaign, 2007.

Meharet Kocatepe. Professor  
Özlen Konu, Assistant Professor
Ph.D., Biology, Texas Tech University, 1999. Microarray data analysis, gene networks in nicotine's pharmacological effects, zebrafish genetics.

Yosum Kurtulmaz, Instructor
Ph.D., Mathematics, Middle East Technical University, 1998. Ring theory, number theory.

Zeki Cemal Kururuğlu, Professor

Rohat Melik, Adjunct Assistant Professor
Ph.D., Electrical & Electronics Engineering, Bilkent University, 2010. Implantable electronics; smart nervous system implants; smart orthopaedic implants; bio-MEMS; flexible electronics for biomedical applications; bio-sensing; novel bio-implant devices and sensors; design, modeling, fabrication and characterization of bio-implant components.

Ügurhan Muğan, Professor

Mehmet Öüz güركent, Associate Professor (on leave)

Ekmel Özbay, Professor

Tayfun Özçelik, Professor
M.D., Human Genetics, İstanbul University, 1986. Human molecular genetics, gene mapping, mutation analysis, identification of disease genes, X-chromsome inactivation.

Emrah Özsoy, Assistant Professor

Ümit Özger, Instructor

Mehmet Öztürk, Professor (on leave)

Aydın Pamir, Instructor
Ph.D., Mathematics, Middle East Technical University, 1992. Numerical analysis, computer programming, applied mathematics, effective teaching in mathematics.

Ulrike Salzner, Associate Professor
Ph.D., Chemistry, Universität Erlangen, 1993. Computational chemistry, quantum chemistry, band structure calculations, band gap engineering, polymer chemistry.

Ali Sinan Sertöz, Professor
Ph.D., Mathematics, University of British Columbia, 1984. Algebraic geometry.

Müfit Sezer, Associate Professor
Ph.D., Mathematics, Purdue University, 2003. Invariant theory, commutative algebra.
Şefik Süzer, Professor
Ph.D., Chemistry, University of California, Berkeley, 1976. Electron, ion and photon spectroscopic analyses of gases, solids and surfaces.

Özgür Şahin, Assistant Professor

Bilal Tanatar, Professor

Mehmet Okan Tekman, Lecturer
Ph.D., Mathematics, University of Minnesota, 1992. Automorphic forms, special values of L-functions.

Dönuş Tuncel, Associate Professor

Bülent Ünal, Associate Professor
Ph.D., Mathematics, University of Missouri, 2000. Differential geometry, Riemannian geometry, pseudo-Riemannian geometry and Lorentzian geometry, global analysis on manifolds, general relativity and quantum field theories.

Özgün Ünlü, Assistant Professor

Giovanni Volpe, Assistant Professor
Ph.D., Physics, ICFO - The Institute of Photronics Sciences, 2008. Condensed matter of Physics, Statistical physics, soft matter, optical tweezers.

Cemal Yalabık, Professor

Ergün Yalçın, Professor
Ph.D., Mathematics, University of Wisconsin-Madison, 1998. Cohomology of groups, finite group actions on topological spaces, geometric structures associated to groups.

Hamza Yeşilyurt, Assistant Professor

İşik Yuluğ, Associate Professor

Natalia Zheltukhina, Instructor
Ph.D., Mathematics, Bilken University, 2002. Analytic properties of entire functions, zero distributions.

PART-TIME ACADEMIC STAFF

Ayca Arslan Ergül, Ph.D., Molecular Biology and Genetics, Bilken University, 2009. Cellular senescence in liver cancer, molecular aging, neurogenesis, brain aging.

Ebru Bilget Güven, Ph.D., Molecular Biology and Genetics, Bilken University, 2012.

Abdullah Ceylan, Ph.D., Physics and Astronomy, University of Delaware, 2007.

The Chemistry Department provides graduate and undergraduate courses in basic and applied areas of Chemistry. The undergraduate program offers the B.S. degree and the graduate program leads to M.S. and Ph.D. degrees in Chemistry. Current research areas are solid-state chemistry, organometallic chemistry, nuclear chemistry, molecular spectroscopy, theoretical chemistry, polymer and surface chemistry. Research in progress include studies of nuclear fission, radiochemical dating studies, sorption studies of radioactive wastes, synthesis and characterization of inorganic materials, liquid crystals, adsorption, catalysis and mechanism of heterogeneous reactions, quantum theory of chemical reactions, few-body problems in chemistry and physics, modification and characterization of material surfaces, theoretical design of conducting polymers, mechanism of diastereoselection in organic reactions, protein conformations, optical studies of molecular aggregates, cage compounds, polymer chemistry, structure-property-performance relationships, electrochemistry and fuel cells. Laboratory facilities include teaching and modern research laboratories for nuclear, electro, solid-state and surface chemistry.

UNDERGRADUATE PROGRAM

The undergraduate program aims to equip students with basic chemical knowledge and experimental skills so that they can contribute to modern scientific and technological developments. The program is designed to lead to a professional career or advanced study in chemistry.

UNDERGRADUATE CURRICULUM

FIRST YEAR

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<td>TURK 101 Turkish I</td>
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Chemistry is a fundamental study encompassing the knowledge of structural and functional diversity of our material world at atomic and molecular level. The achievements of chemistry span from synthesis of pharmaceuticals and agricultural products to new materials, solar cells, superconductors, clean fuels. Chemistry impacts many disciplines in the fields of engineering, technology, biology, physics, medicine, and plays a central role in the solution of important problems related to health and environment.

The new minor program in chemistry is designed for undergraduate students from the Science and Engineering Faculties who intend to pursue a professional career in interdisciplinary fields in which a sound knowledge of chemistry is important.

**Prerequisite Courses:**
- PHYS 101 General Physics I
- PHYS 102 General Physics II
- MATH 101 Calculus I
- MATH 102 Calculus II

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**THIRD YEAR**

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<td>Quantum Chemistry I</td>
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<td>HUM 111</td>
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**FOURTH YEAR**

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<td>CHEM 450</td>
<td>Applied Quantum Chemistry</td>
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<td>CHEM 492</td>
<td>Senior Project II</td>
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Note: Technical electives can be chosen from CHEM 201, any 300 or higher level MBG, PHYS, CS, EE, IE, MATH, or CHEM course, or with the consent of the advisor.

**MINOR PROGRAM**

Chemistry is a fundamental study encompassing the knowledge of structural and functional diversity of our material world at atomic and molecular level. The achievements of chemistry span from synthesis of pharmaceuticals and agricultural products to new materials, solar cells, superconductors, clean fuels. Chemistry impacts many disciplines in the fields of engineering, technology, biology, physics, medicine, and plays a central role in the solution of important problems related to health and environment.

The new minor program in chemistry is designed for undergraduate students from the Science and Engineering Faculties who intend to pursue a professional career in interdisciplinary fields in which a sound knowledge of chemistry is important.

**Prerequisite Courses:**
- PHYS 101 General Physics I
- PHYS 102 General Physics II
- MATH 101 Calculus I
- MATH 102 Calculus II
CURRICULUM

Courses Credits / ECTS Credits
CHEM 212 Analytical Chemistry II ................................................................. 3 / 6
CHEM 231 Organic Chemistry I ................................................................. 3 / 6
CHEM 341 Inorganic Chemistry I ................................................................. 3 / 6
Electives (3) ........................................................................................................ 9 / 18

GRADUATE PROGRAMS

The graduate program is tailored to develop research skills of students so that they can pursue original and creative research at the highest level. Current research areas are nuclear chemistry, organic and inorganic chemistry, polymer chemistry, theoretical and computational chemistry and surface chemistry.

Master of Science in Chemistry

Admission: All applicants are required to have a B.S. degree in chemistry, chemical engineering, or in a related field of science or engineering. Students with a B.S. degree in areas other than chemistry may be requested to take several undergraduate courses in the field to acquire the necessary background. Evaluation of applicants is based on their ALES (Akademik Personel ve Lisansüstü Eğitim Gişi Sınavı Academic Personnel and Postgraduate Education Entrance Examination) scores, past academic records, reference letters and an interview. Applicants who are not Turkish citizens and Turkish citizen applicants who are residents of another country may take GRE instead of ALES. All non-native speakers of English are required to submit a proof of satisfactory knowledge of English.

Degree Requirements: In addition to at least 24 credit units of course work, the M.S. degree candidate must prepare and successfully defend a thesis. Expected duration to complete the M.S. program is four semesters; the maximum duration is six semesters.

Doctor of Philosophy in Chemistry

Admission: All applicants are required to have a B.S. degree in chemistry, or in a related field of science or engineering. Evaluation of applicants is based on their ALES (Akademik Personel ve Lisansüstü Eğitim Gişi Sınavı - Academic Personnel and Postgraduate Education Entrance Examination) scores, past academic records, reference letters and an interview. Applicants who are not Turkish citizens and Turkish citizen applicants who are residents of another country may take GRE instead of ALES. All non-native speakers of English are required to submit a proof of satisfactory knowledge of English.

Degree Requirements: 24 credit units of course work beyond the M.S. level or 48 credits of course work beyond the B.S. level is required. PhD candidates must pass a qualifying exam typically on their fourth semester, and then must prepare a thesis work proposal. Preparing and defending a dissertation based on original research is the essence of the program. A dissertation based on original research is the essence of the program. The expected duration to complete the Ph.D. program is eight semesters for students who enter the program after a M.S. degree, and ten semesters for those who enter after a B.S. degree. The maximum durations are 12 and 14 semesters, respectively.

COURSE DESCRIPTIONS

UNDERGRADUATE COURSES

CHEM 100 General Chemistry
CHEM 101  Principles of Chemistry I
A basic course in chemical systems, stoichiometry, structural and physical properties of matter, chemical equilibration, ionic equilibrium, chemical thermodynamics, electrochemistry, chemical kinetics. (Laboratory work is obligatory). Credit units: 4 ECTS Credit Units: 6. Aut (H. N. Erten, E. Özensoy, U. Salzner) Spr (Ş. Süzer)

CHEM 102  Principles of Chemistry II
Atomic theory and molecular structure. Covalent, ionic and metallic bonding. Structure of metals, ceramics, and polymers. (Laboratory work is obligatory). Credit units: 4 ECTS Credit Units: 6. Prerequisite: CHEM 101. Spr (H. N. Erten, E. Özensoy, U. Salzner)

CHEM 120  Orientation for Chemistry Majors
Introduction to the aspects of the “current chemistry and chemical research” for first year chemistry majors. Students will be introduced to the department and its members. Faculty members and students meet once a week for discussions and presentations to introduce a variety of subject areas. Credit units: 1 ECTS Credit Units: 2. Aut (E. U. Akkaya)

CHEM 201  Materials Science and Technology

CHEM 206  Introductory Concepts in Evolution
Brief history of the idea of biological evolution. Natural selection, variation and biogeography, homology and comparative biology, understanding fossil evidence, evidence from biochemistry and molecular biology. Scientific method and pseudo-scientific arguments, common misconceptions about evolution. Credit units: 3 ECTS Credit Units: 6.

CHEM 211  Analytical Chemistry I
Fundamental principles and theories of analytical chemistry. Qualitative and quantitative analysis by gravimetric, volumetric and electrochemical methods. Credit units: 3 ECTS Credit Units: 6. Prerequisite: CHEM 102. Aut (Ö. Dağ)

CHEM 212  Analytical Chemistry II
Modern instrumental methods of chemical analysis based upon electrochemical and spectroscopic methods. Credit units: 3 ECTS Credit Units: 6. Prerequisite: CHEM 102 and CHEM 211. Spr (Ö. Dağ)

CHEM 213  Analytical Chemistry Laboratory I
Exerimtions in modern quantitative analysis: Gravimetry, Neutralization Titrations, Analysis of Carbonate Mixtures, Precipitation Titrations, Titrations Based on Complex Formation, Oxidation-Reduction Titrations, Iodometry, Potentiometric Titrations. Credit units: 2 ECTS Credit Units: 4. Prerequisite: CHEM 102. Aut (Ö. Dağ)

CHEM 214  Analytical Chemistry Laboratory II
A basic course in measurement science, intended to provide the student with an overall view of modern analytical chemistry and the instrumental methods of analysis used throughout industrial laboratories and research environments: Potentiometry, Ion Exchange Chromatography, Flame Photometry, Atomic Absorption Spectrometry, Infrared Spectrometry, Thin Layer Chromatography, Ultraviolet and Visible Spectrometry, Gas Chromatography, Electrophoresis. Credit units: 2 ECTS Credit Units: 4. Prerequisite: CHEM 211 and CHEM 213. Spr (Ö. Dağ)

CHEM 231  Organic Chemistry I

CHEM 232  Organic Chemistry II
Basic principles of organic chemistry. A survey of the principal classes of organic compounds. Synthesis and characteristic reactions of various functional groups. Credit units: 3 ECTS Credit Units: 6. Prerequisite: CHEM 102 and CHEM 231. Spr (D. Tuncel)

CHEM 233  Principles of Organic Chemistry I
CHEM 235  Organic Chemistry Laboratory I  
This course will cover the basic organic chemistry experimental techniques such as: Crystallization, melting point determination, distillation, extraction, chromatography (e.g. thin layer chromatography, column chromatography).  
Credit units: 2 ECTS Credit Units: 4, Prerequisite: CHEM 102. Aut (D. Tuncel)

CHEM 236  Organic Chemistry Laboratory II  
The basic organic chemistry experiments will be carried out for the synthesis of some important organic molecules using the techniques acquired in Organic Chemistry Laboratory I (CHEM 235) as well as the knowledge gained in the Organic Chemistry Courses I and II. The students will also be introduced to the characterization techniques of organic molecules such as UV-Vis, FTIR and NMR spectroscopy.  
Credit units: 2 ECTS Credit Units: 4, Prerequisite: CHEM 231 and CHEM 235. Spr (D. Tuncel)

CHEM 230  Physical Chemistry Laboratory  
Credit units: 3 ECTS Credit Units: 6, Prerequisite: CHEM 102. Aut (E. Özensoy)

CHEM 323  Physical Chemistry II  
Credit units: 3 ECTS Credit Units: 6, Prerequisite: CHEM 323. Spr (E. Özensoy)

CHEM 325  Principles of Physical Chemistry I  
Credit units: 3 ECTS Credit Units: 6. Aut (E. Özensoy)

CHEM 326  Principles of Physical Chemistry II  
Credit units: 3 ECTS Credit Units: 6, Prerequisite: CHEM 325. Spr (E. Özensoy)

CHEM 327  Quantum Chemistry I  
Credit units: 3 ECTS Credit Units: 6, Prerequisite: (MATH 220 and MATH 240 and PHYS 102) or (MATH 225 and PHYS 102). Aut (Z. C. Kurooğlu)

CHEM 328  Quantum Chemistry II  
Credit units: 3 ECTS Credit Units: 6, Prerequisite: CHEM 323 or CHEM 325. Spr (Z. C. Kurooğlu)

CHEM 340  Inorganic Chemistry Laboratory  
Credit units: 3 ECTS Credit Units: 6, Prerequisite: CHEM 102. Spr (M. M. Kantcheva)

CHEM 341  Inorganic Chemistry I  
Credit units: 3 ECTS Credit Units: 6, Prerequisite: CHEM 102. Aut (M. M. Kantcheva)

CHEM 342  Inorganic Chemistry II  
Bonding, stereochemistry and spectra of coordination compounds. Electronic, magnetic and optical properties of solids.  
Credit units: 3 ECTS Credit Units: 6, Prerequisite: CHEM 341. Spr (M. M. Kantcheva)
CHEM 399 Summer Practice
The minimum time for this practice is 6 weeks (30 working days). The main objective is to work in an industrial laboratory on the areas of Chemistry. Credit units: None ECTS Credit Units: None. Aut (D. Tuncel)

CHEM 421 Principles and Chemical Applications of Thermodynamics

CHEM 422 Introduction to Statistical Thermodynamics

CHEM 430 Food Chemistry
Credit units: 3 ECTS Credit Units: 6, Prerequisite: CHEM 101 or CHEM 102. Spr (U. Salzner)

CHEM 450 Applied Quantum Chemistry
Quantum mechanical calculations of various properties of molecules using semi-empirical as well as ab-initio methods. Credit units: 3 ECTS Credit Units: 6. Aut (U. Salzner)

CHEM 456 Advanced Instrumental Analysis
The course objective is to study and discuss the principles, instrumentation and applications of modern instrumental methods, including spectroscopic techniques such as AAS, ICPMS, FTIR, Raman spectroscopy, Luminescence Spectroscopy, Mass Spectrometry. Credit units: 3 ECTS Credit Units: 6.

CHEM 460 Environmental Chemistry
Chemical problems related to environment. Energy balance of earth, ozone in the upper atmosphere, greenhouse effect, micrometeorology, SO$_2$ and CO$_2$ cycles, photochemical smog, aerosols, trace elements in the environment, particle size distribution. Credit units: 3 ECTS Credit Units: 6.

CHEM 470 Polymer Chemistry

CHEM 491 Senior Project I
A project on a specific topic in an area of chemistry to be carried out by the student under the supervision of a faculty member. Credit units: 3 ECTS Credit Units: 6. Aut (E. U. Akkaya)

CHEM 492 Senior Project II
A project on a specific topic in an area of chemistry to be carried out by the student under the supervision of a faculty member. Credit units: 3 ECTS Credit Units: 6. Spr (F. Karadağ)

GRADUATE COURSES

CHEM 503 Chemical Kinetics

CHEM 504 Group Theory and its Chemical Applications
Group theory, molecular symmetry, ligand field theory. Applications: symmetry aspects of MO theory, spectroscopy of transition metal complexes, metal-ligand bonding, molecular vibrations and symmetry. Credit units: 3 ECTS Credit Units: 6. Aut (O. Dag)

CHEM 505 Nuclear and Radiochemistry

CHEM 506 Chemical Thermodynamics
systems in external fields. Introduction to Irreversible Thermodynamics.  
Credit units: 3 ECTS Credit Units: 6. Aut (Z. C. Kuruoğlu)

CHEM 513 Environmental Radiochemistry
Radiochemical problems related with the environment. Analysis of current environmental issues using radioiso-
Credit units: 3 ECTS Credit Units: 6. Spr (H. N. Erten)

CHEM 515 Molecular Spectroscopy
Atomic spectra, rotational, vibrational and electronic spectra of molecules. Structural parameters. Molecular 
models. Group theory. Selection rules. Credit units: 3 ECTS Credit Units: 6. Aut (Ş. Süzer)

CHEM 521 Surface Chemistry I
The central idea of this course is to describe the present state of modern surface science within a context dictated 
by chemistry. The course offers understanding of the surface phenomena at molecular-level and their relation 
to the various surface processes. It is focused on the properties of the solid-gas and solid-liquid interfaces and 
could be interest to students of chemical, physical and engineering science. Credit units: 3 ECTS Credit Units: 6. Spr (M. M. Kantcheva)

CHEM 523 Concepts in Materials Science
Fundamental concepts in materials science will be covered. These topics include plastic deformation of crys-
talline solids and dislocations theory, defects in solids, diffusion phenomena, interfaces and kinetics of phase 
transformations. Nucleation and growth phenomena will also be covered. Several metallic, ceramic and poly-
meric systems will be investigated as case study examples. Credit units: 3 ECTS Credit Units: 6.

CHEM 531 Advanced Organic Chemistry I
The important classes of organic reactions and methods by which chemists obtain information about chemical 
processes. The primary focus of the course is on reaction mechanisms. The experimental evidence upon which 
mechanistic ideas are built will be emphasized. This course will also emphasize heterolytic reactions. Credit 
units: 3 ECTS Credit Units: 6. Aut (D. Tunçel)

CHEM 537 Supramolecular Chemistry
The course introduces general principles of molecular recognition, complex formation and host design, with 
emphasis on thermodynamics of multi-site host-guest complexation and nature of supramolecular interactions.  
Structure, properties, and synthesis of major categories of cation-, anion-, and neutral molecule-binding hosts 
are discussed, and crystal structures of enzyme-inhibitor complexes are analyzed from the point of view of the 
basic concepts of host-guest chemistry. Credit units: 3 ECTS Credit Units: 6.

CHEM 541 Advanced Inorganic Chemistry I
Electronic spectra of complexes, reaction mechanism of d-block complexes, d- and f-block organometallic com-
pounds, inorganic chains, rings, cages and clusters, catalysis and characterization of catalytic materials. Credit 
units: 3 ECTS Credit Units: 6. Aut (M. M. Kantcheva)

CHEM 542 Advanced Inorganic Chemistry II
Solid state synthesis, electronic and optical properties of solids. Solid state characterization methods. Credit 
units: 3 ECTS Credit Units: 6. Spr (Ö. Dağ)

CHEM 551 Special Topics in Physical Chemistry I
Credit units: 3 ECTS Credit Units: 6.

CHEM 552 Special Topics in Physical Chemistry II
Credit units: 3 ECTS Credit Units: 6.

CHEM 557 Special Topics in Organic Chemistry I
Credit units: 3 ECTS Credit Units: 6. Spr (D. Tunçel)

CHEM 571 Polymer Chemistry I
Basic concepts of polymer science. Condensation, free radical, ionic, and coordination polymerizations. Syn-

CHEM 591 Graduate Seminar I
This is a graduate (MS) seminar course. The instructor and students meet once a week for presentations and 
discussions. Topics of presentations are chosen by the mutual consent of the instructor and the students. Credit 
units: None ECTS Credit Units: None. Aut (E. U. Akkaya) Spr (Staff)

CHEM 599 Master’s Thesis
Credit units: None ECTS Credit Units: 24. Aut (E. U. Akkaya) Spr (Staff)
CHEM 691  Advanced Seminar I  
This is a graduate (PhD) seminar course. The instructor and students meet once a week for presentations and discussions. Topics of presentations are chosen by the mutual consent of the instructor and the students. *Credit units: None  ECTS Credit Units: None*. Aut (E. U. Akkaya)

CHEM 699  Ph.D. Dissertation  
*Credit units: None  ECTS Credit Units: 24*. Aut (E. U. Akkaya) Spr (Staff)
The Department of Mathematics offers undergraduate and graduate courses that lead to B.S., M.S. and Ph.D. degrees in Mathematics as well as undergraduate and graduate courses to all departments of the university.

The department emphasizes both pure and applied mathematics. Research in the department covers algebra, algebraic topology, algebraic geometry, functional analysis, algebraic number theory, analysis of nonlinear systems and general relativity.

**UNDERGRADUATE PROGRAM**

The undergraduate program in mathematics aims to serve two different purposes through a highly flexible curriculum.

On the one hand we educate the future mathematicians both with the pure and applied interests. For this we have a carefully prepared program whose success is tested over and over again during the last two decades. Only highly motivated and research oriented students choose specialized mathematics courses and together with equally motivated and talented classmates they experience a challenging and rewarding learning process. The program allows students to choose and specialize on their research subjects and they may start to do projects with their chosen mentors.

On the other hand we realize that some of our students decide not to pursue a research oriented path in mathematics. They want to prepare themselves for the challenges of the new era with a solid background in mathematics. Modern times require multivariate skills for jobs which were neither existent nor conceivable before. Our curriculum allows such students to structure their own education by allowing them to choose from the rich pool of courses offered on the campus by any department. This allows them to specialize on a subject of their choice with the advantage of having a strong mathematical basis.

The flexibility of our curriculum allows us to mentor and train both prospective mathematicians and widely educated individuals who will have a definite edge in the competitive job market for jobs which require talented and knowledgeable team members.

Our curriculum thus prepares students, according to their own choice, either for graduate work and research in mathematics, or for successful future in jobs such as economics, finance, business and education, just to name a few roads walked by our past graduates.

**UNDERGRADUATE CURRICULUM**

**FIRST YEAR**

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<td>MATH 492</td>
<td>Senior Project II</td>
</tr>
</tbody>
</table>
MINOR PROGRAM

The minor program in mathematics is designed to give the students a short view of what constitutes modern mathematics beyond the more computational Calculus courses. The mathematics courses taken by students in other disciplines are usually geared towards using certain methods. However, one might also want to understand the reasons, mechanisms, and the axiomatic structure underlying the results. For this, one must also learn the proofs of mathematical theorems and obtain from them further mathematical results. This is what is generally considered doing mathematics.

In the minor program, students take 4 required courses, 2 from each of mathematics’ two classical well-established areas, algebra and analysis. They form a well-balanced introduction to modern mathematics. They are also essential for an understanding of more advanced courses in these and other areas, two of which should be taken as electives. A good selection of electives would include courses in other areas as well so that students would have an idea of some of the newer developments in modern mathematics. The purpose is not to specialize in a narrow area, but rather to broaden one’s understanding.

Prerequisite Courses:

- MATH 102 Calculus II
- MATH 106 Introduction to Calculus II
- MATH 114 Multi Variable Calculus
- MATH 116 Intermediate Calculus III

CURRICULUM

<table>
<thead>
<tr>
<th>Courses</th>
<th>Credits / ECTS Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 213 Advanced Calculus I</td>
<td>3 / 6</td>
</tr>
<tr>
<td>MATH 323 Algebra I</td>
<td>3 / 6</td>
</tr>
<tr>
<td>Electives (2)</td>
<td>6 / 12</td>
</tr>
<tr>
<td>MATH 202 or MATH 302</td>
<td>3 / 6</td>
</tr>
<tr>
<td>MATH 223 or MATH 224</td>
<td>3 / 6</td>
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</table>

ELECTIVE COURSES

<table>
<thead>
<tr>
<th>Courses</th>
<th>Credits / ECTS Credits</th>
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<tbody>
<tr>
<td>MATH 214 Advanced Calculus II</td>
<td>3 / 6</td>
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<tr>
<td>MATH 215 Mathematical Analysis</td>
<td>3 / 6</td>
</tr>
<tr>
<td>MATH 224 Linear Algebra II</td>
<td>3 / 6</td>
</tr>
<tr>
<td>MATH 240 Differential Equations</td>
<td>3 / 6</td>
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<tr>
<td>MATH 253 Introduction to Number Theory</td>
<td>3 / 6</td>
</tr>
<tr>
<td>MATH 302 Complex Analysis II</td>
<td>3 / 6</td>
</tr>
<tr>
<td>MATH 313 Real Analysis I</td>
<td>3 / 6</td>
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<tr>
<td>MATH 314 Real Analysis II</td>
<td>3 / 6</td>
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<tr>
<td>MATH 324 Algebra II</td>
<td>3 / 6</td>
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<tr>
<td>MATH 345 Differential Geometry I</td>
<td>3 / 6</td>
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<tr>
<td>MATH 346 Differential Geometry II</td>
<td>3 / 6</td>
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<tr>
<td>MATH 414 Functional Analysis</td>
<td>3 / 6</td>
</tr>
<tr>
<td>MATH 431 Introduction to Algebraic Geometry</td>
<td>3 / 6</td>
</tr>
<tr>
<td>MATH 443 Partial Differential Equations</td>
<td>3 / 6</td>
</tr>
<tr>
<td>MATH 453 Algebraic Number Theory</td>
<td>3 / 6</td>
</tr>
</tbody>
</table>

GRADUATE PROGRAMS

The aim of the program is to develop students into mathematicians who can pursue original and creative research. The program emphasizes research in pure and applied mathematics. At present, research in the graduate program is focused on algebra, algebraic number theory, algebraic geometry, algebraic topology, analytic number theory, complex analysis, functional analysis, non-linear differential equations and general relativity.
Master of Science in Mathematics

Admission: All applicants are required to have a B.S. degree in mathematics, or in a related field of science or engineering. Students with a B.S. degree in areas other than mathematics may be requested to take several undergraduate courses in the field to acquire necessary background. Evaluation of applicants is based on their ALES (Akademik Personel ve Lisansüstü Eğitimi Giriş Sınavı - Academic Personnel and Postgraduate Education Entrance Examination) scores, past academic records, reference letters and an interview. Applicants who are not Turkish citizens and Turkish citizen applicants who are residents of another country may take GRE instead of ALES. All non-native speakers of English are required to submit a proof of satisfactory knowledge of English.

Degree Requirements: In addition to at least 24 credit units of course work, the M.S. degree candidate must prepare and successfully defend a thesis. Expected duration to complete the M.S. program is four semesters; the maximum duration is six semesters.

CURRICULUM

Courses
GE 590 Academic Practices ................................................................. - / -
MATH 501 Real Analysis I ................................................................. 3 / 6
MATH 503 Complex Analysis I ............................................................ 3 / 6
MATH 523 Algebra I ................................................................. 3 / 6
MATH 543 Methods of Applied Mathematics I ........................................ 3 / 6
MATH 599 Master's Thesis ................................................................. - / 24
Graduate Elective ........................................................................... 3 / 6
Graduate Seminars in Mathematics ................................................... 3 / 6
MATH Graduate Electives (2) .......................................................... 6 / 12
Restricted Graduate Elective .......................................................... 3 / 6

Doctor of Philosophy in Mathematics

Admission: All applicants are required to have a B.S. degree in mathematics, or in a related field of science or engineering. Evaluation of applicants is based on their ALES (Akademik Personel ve Lisansüstü Eğitimi Giriş Sınavı - Academic Personnel and Postgraduate Education Entrance Examination) scores, past academic records, reference letters and an interview. Applicants who are not Turkish citizens and Turkish citizen applicants who are residents of another country may take GRE instead of ALES. All non-native speakers of English are required to submit a proof of satisfactory knowledge of English.

Degree Requirements: 24 credit units of course work beyond the M.S. level or 48 credits of course work beyond the B.S. level is required. PhD candidates must pass a qualifying exam typically on their fourth semester, and then must prepare a thesis work proposal. Preparing and defending a dissertation based on original research is the essence of the program. A dissertation based on original research is the essence of the program. The expected duration to complete the Ph.D. program is eight semesters for students who enter the program after a M.S. degree, and ten semesters for those who enter after a B.S. degree. The maximum durations are 12 and 14 semesters, respectively.

CURRICULUM

Courses
GE 690 Academic Practices ................................................................. - / -
MATH 611 Algebraic Topology I ............................................................ 3 / 6
MATH 699 Ph.D. Dissertation ............................................................... - / 24
Graduate Elective ........................................................................... 3 / 6
Graduate Seminars in Mathematics ................................................... 3 / 6
MATH Graduate Electives (4) .......................................................... 12 / 24
Restricted Graduate Electives (2) ...................................................... 6 / 12
RESTRICTED ELECTIVES

MATH 502 Real Analysis II ................................................................. 3 / 6
MATH 504 Complex Analysis II ......................................................... 3 / 6
MATH 524 Algebra II .................................................................. 3 / 6
MATH 544 Methods of Applied Mathematics II .................................. 3 / 6

MATH Electives: All math courses with codes 500’s and 600’s.

COURSE DESCRIPTIONS

UNDERGRADUATE COURSES

MATH 101 Calculus I

MATH 102 Calculus II
Sequences and series, power series, Taylor series. Functions of several variables: partial derivatives and gradient, free and constrained extrema, multiple integrals, Fubini’s theorems, Line integrals, Green’s theorem. Surface integrals. Divergence theorem, Stokes’ theorem. Credit units: 4 ECTS Credit Units: 7. Prerequisite: MATH 101 or MATH 112 or MATH 113. Aut (A. M. Güloğlu, H. T. Kapıanoğlu, Ö. Ünlü, H. Yeşilyurt) Spr (Staff)

MATH 103 Introductory Mathematics

MATH 105 Introduction to Calculus I
Inequalities, absolute value. Cartesian plane, graphs of equations (lines, circles and parabolas). Functions, functions in economics, trigonometric functions. Limits, continuity. Derivative, differentiation rules, chain rule, implicit differentiation, marginal functions in economics. Maximum and minimum values, increasing and decreasing functions, the first derivative test, concavity, the second derivative test, curve sketching using calculus, optimization problems and applications in business and economics. Credit units: 4 ECTS Credit Units: 7. Aut (M. G. Davenport, S. Karadağ, Ü. Özger) Spr (Ü. Özger)

MATH 106 Introduction to Calculus II
Indefinite integral, definite integral, fundamental theorem of calculus, method of substitution, area between two curves. Inverse functions and their derivatives, exponential and logarithmic functions, inverse trigonometric functions. Indeterminate forms and the Hôpital’s Rule. Geometric series, compound interest, exponential growth and decay. Techniques of integration (integration by parts, rationalizing substitution, partial fractions), improper integrals. Differential equations (separable and first-order linear equations) and initial-value problems. Three-dimensional coordinate system, functions of several variables, partial derivatives, the chain rule. Maximum and minimum values, the second partials test, the Method of Lagrange Multipliers. Double integrals. Credit units: 4 ECTS Credit Units: 7. Prerequisite: MATH 105. Aut (U. Özger) Spr (M. G. Davenport, S. Karadağ)

MATH 110 Discrete Mathematics

MATH 119 Statistics for Lawyers
This course introduces students of law the basic ideas of probability and statistics. Topics covered include data evaluation and analysis, conditional probabilities, distributions, Bayesian methods, sampling, confidence intervals, hypothesis testing and elementary regression analysis. Credit units: 3 ECTS Credit Units: 3. Aut (M. Akçay) Spr (M. Akçay)
MATH 123 Abstract Mathematics I

MATH 124 Abstract Mathematics II

MATH 132 Discrete and Combinatorial Mathematics
Fundamental principles of counting including rules of sums and product, permutations and combinations. Fundamentals of logic and integers including mathematical induction, recursive definitions, prime numbers, greatest common divisor, cartesian products and relations, pigeonhole principle, partial orders, equivalence relations and partitions. The principle of inclusion and exclusion. Sums and recurrence relations: first and second order linear recurrence relations, finite and infinite calculus, infinite sums. Integer functions including floor and ceiling applications and recurrences, and the modulo operation. Generating functions including the method of generating functions for solving recurrences and exponential generating functions. Introduction to graph theory including graph isomorphism, Euler tours, Hamiltonian paths and cycles, planar graphs, and graph coloring. Credit units: 3 ECTS Credit Units: 6, Prerequisite: MATH 101 or MATH 111 or MATH 113. Aut (A. Klyachko) Spr (L. J. Barker)

MATH 202 Complex Analysis
Algebra of complex numbers, topology of the complex plane. Analytic functions, Cauchy-Riemann equations, power series. Complex line integrals, Cauchy theorem, Cauchy integral formula, Taylor series. Mean value property, Liouville theorem, isolated zeros, uniqueness theorem, maximum modulus principle. Isolated singularities, singularities at infinity, Laurent series. Residues, evaluation of improper integrals. Credit units: 3 ECTS Credit Units: 6, Prerequisite: MATH 102 or MATH 114.

MATH 210 Finite and Discrete Mathematics

MATH 213 Advanced Calculus I
The real number system, least upper bound property. Sequences in R, Cauchy sequences, limsup and liminf. Limit and continuity in R, uniform continuity. Differentiation in R. Riemann integral in R, fundamental theorem of calculus. Infinite series of numbers, absolute convergence. Sequences and series of functions, uniform convergence, power series. Credit units: 3 ECTS Credit Units: 6, Prerequisite: (MATH 123 and MATH 114) or (MATH 123 and MATH 102). Aut (A. Gheondea)

MATH 214 Advanced Calculus II
Euclidean spaces, topology of \( \mathbb{R}^n \). Differentiability on \( \mathbb{R}^n \), differentials, inverse and implicit function theorems. Riemann integral on \( \mathbb{R}^n \), Jordan regions, change of variables. Vector calculus, curves and surfaces, Green, Gauss, Stokes theorems Credit units: 3 ECTS Credit Units: 6, Prerequisite: MATH 213. Spr (A. Gheondea)

MATH 215 Mathematical Analysis
The real number system. The complex field. Finite, countable, uncountable sets. Metric spaces. Compact sets, connected sets. Sequences, Cauchy sequences. Series of numbers, summation by parts. Continuity, uniform continuity. Continuity and compactness, continuity and connectedness. Sequences and series of functions, uniform convergence. Uniform convergence and continuity/integration/differentiation. Credit units: 3 ECTS Credit Units: 6, Prerequisite: MATH 102 or MATH 106 or MATH 114 or MATH 116.

MATH 220 Linear Algebra

MATH 222 Linear Algebra I
MATH 224 Linear Algebra II

MATH 225 Linear Algebra and Differential Equations

MATH 227 Introduction to Linear Algebra
Introduction to matrices, basic definitions and properties. Linear equations; inverse and rank of a matrix; existence and classification of solutions; Gaussian elimination. Characteristic equation of a matrix; eigenvalues, eigenvectors. Numerical techniques. Applications. Credit units: 3 ECTS Credit Units: 6, Prerequisite: MATH 106. Aut (Ö. Oral) Spr (Ö. Oral)

MATH 230 Probability and Statistics for Engineers
Basic concepts of probability (sample spaces and events, permutations, combinations, conditional probability and independence). Discrete and continuous random variables, their probability distributions, expected value and distribution parameters. Discrete probability distribution functions (Binomial, geometric, negative binomial, Poisson distributions). Continuous probability distributions (uniform, normal, exponential, gamma and $X^2$ distributions). Joint Distributions, Conditional Distributions. Independent Random Variables. Correlation. The sampling distribution of sample mean, Central Limit Theorem and its applications. Estimation. Confidence Intervals, Hypothesis Testing. Credit units: 3 ECTS Credit Units: 6, Prerequisite: MATH 102 or MATH 112 or MATH 114. Aut (D. GÜVENÇ) Spr (D. GÜVENÇ)

MATH 240 Differential Equations
First and second order differential equations, existence and uniqueness of solutions. Linear homogeneous differential equations. Linear nonhomogeneous equations: the methods of undetermined coefficients and variation of parameters, reduction of order. Series solution of second order equations. Solution by Laplace transforms. Numerical solution techniques. Credit units: 3 ECTS Credit Units: 6, Prerequisite: MATH 102 or MATH 112 or MATH 114. Aut (U. Muğan) Spr (U. Muğan)

MATH 241 Engineering Mathematics I

MATH 242 Engineering Mathematics II

MATH 250 Introduction to Probability
Basic concepts of probability, conditional probability. Random variables, expectation and variance. Binomial, geometric, negative binomial, hypergeometric, Poisson random variables. Moment generating functions. Continuous random variables: Uniform, Exponential, Gamma, Normal, Beta, Weibull distributions. Bivariate and marginal distributions. Conditional distributions, covariance and correlation coefficient, conditional expectations. Credit units: 3 ECTS Credit Units: 6, Prerequisite: MATH 102 or MATH 112 or MATH 114. Aut (A. KERİMOV) Spr (Staff)

MATH 253 Introduction to Number Theory
Divisibility, congruences, quadratic reciprocity, arithmetical functions, irrational numbers, simple continued fractions, Diophantine equations. Credit units: 3 ECTS Credit Units: 6. Spr (H. YEGİLYURT)
MATH 255  Probability and Statistics
Basic concepts of probability, expectation and variance, distribution functions, Bayes’ formula, marginal and conditional distributions, the distributions of sample statistics, law of large numbers, central limit theorem, introduction to hypothesis testing. Credit units: 4 ECTS Credit Units: 7, Prerequisite: MATH 102. Aut (E. Ankan) Spr (E. Ankan)

MATH 260  Introduction to Statistics
Descriptive statistics, sampling and sampling distributions. Introduction to estimation theory, method of maximum likelihood and method of moments, interval estimation, Bayes estimators. Test of hypotheses, two population problems. Simple linear regression and correlation, nonlinear regression. Multiple regression analysis. Credit units: 3 ECTS Credit Units: 6, Prerequisite: MATH 250. Aut (A. Goncharov) Spr (D. Gürvenç)

MATH 262  Statistical Methodology
Organization and description of data. Basic concepts of probability. Binomial, Poisson distributions. The normal distribution. $X^2$, t and F distributions. Simple and multiple regression. Analysis of categorical data. Some nonparametric tests. Biological and medical science applications using a statistical software such as MINITAB or SAS. Credit units: 3 ECTS Credit Units: 6. Spr (A. Kerimov)

MATH 264  Statistics for Social Sciences
Introduction to statistics with special emphasis on the utilization of statistical methods in social sciences: Organization of data, measures of center and variability. Basic probability concepts. Discrete and continuous random variables and their distributions. Inferences about the mean. Applications using statistical computer programs. Credit units: 3 ECTS Credit Units: 6. Aut (S. Kadıyıftoğur) Spr (M. Akçay)

MATH 291  Summer Project I
A project on a specific topic in an area of mathematics to be carried out by the students under the supervision of a faculty member. Credit units: None ECTS Credit Units: None.

MATH 302  Complex Analysis II

MATH 310  Topology
Topological spaces, connected and compact spaces, continuous functions, product spaces, the Tychonoff theorem, separation axioms, separation by continuous functions, complete metric spaces, applications. Fundamental group and covering spaces: homotopy, fundamental group, covering spaces. Credit units: 3 ECTS Credit Units: 6. Aut (E. Yalçın)

MATH 313  Real Analysis I

MATH 314  Real Analysis II
Lebesgue outer measure, measurable sets, Lebesgue integral, convergence theorems. Functions of bounded variation, absolutely continuous functions, $L^p$ spaces. General measure and integration theory. Radon-Nikodym theorem. Product measures, Fubini’s theorem. Credit units: 3 ECTS Credit Units: 6, Prerequisite: MATH 313. Spr (A. Goncharov)

MATH 319  Interpolation and Approximation

MATH 323  Algebra I
MATH 324 Algebra II

MATH 325 Representation Theory

MATH 337 Introduction to Soliton Theory
The Korteweg-de Vries equation, properties of the KdV solutions, integrability of the KdV equation, initial value problem for the KdV equation, inverse scattering theory, the Lax method, multi-solition solutions, geometrical aspects, integrable models, the Toda lattice, Zakharov-shabat formulation. Credit units: 3. ECTS Credit Units: 6. Spr (M. GÜRSÊ)

MATH 345 Differential Geometry I
Euclidean spaces and differential forms, frames, calculus on surfaces. Shape operators. Gaussian and mean curvatures. Credit units: 3. ECTS Credit Units: 6. Prerequisite: MATH 214. Aut (B. Ünal)

MATH 346 Differential Geometry II

MATH 391 Summer Project II
A project on a specific topic in an area of mathematics to be carried out by the students under the supervision of a faculty member. Credit units: None. ECTS Credit Units: None.

MATH 414 Functional Analysis

MATH 430 Introduction to Complex Geometry
Vector bundles. Sheaf theory and sheaf cohomology. Kähler manifolds. Chow rings. Lefschetz (1,1)-theorem. The hodge conjecture, i.e. the (p,p) version of Lefschetz’s theorem. Credit units: 3. ECTS Credit Units: 6.

MATH 431 Introduction to Algebraic Geometry

MATH 443 Partial Differential Equations
Pfaffian systems, linear and nonlinear PDE’s of first order. Second order PDE, characteristic curves and characteristic equations. Laplace equation, wave equation, heat equation. Method of integral transforms, Fourier series, Green’s function. Credit units: 3. ECTS Credit Units: 6. Prerequisite: MATH 240 or MATH 242. Aut (U. Muğan)

MATH 445 Analysis on Manifolds
The algebra and topology of Rn review of differentiation and integration inverse and implicit function theorems change of variables tensors and differential forms integration on chains integration on manifolds and stokes’ theorem. Credit units: 3. ECTS Credit Units: 6.

MATH 453 Algebraic Number Theory

MATH 491 Senior Project I
A project on a specific topic in an area of mathematics to be carried out by the students under the supervision of a faculty member. Credit units: 3. ECTS Credit Units: 6. Aut (A. Gheondea)
MATH 492  Senior Project II
A project on a specific topic in an area of mathematics to be carried out by the students under the supervision of a faculty member. Credit units: 3 ECTS Credit Units: 6.

GRADUATE COURSES

MATH 500  Mathematical Analysis
Credit units: 3 ECTS Credit Units: 6. Aut (A. Goncharov)

MATH 501  Real Analysis I

MATH 502  Real Analysis II

MATH 503  Complex Analysis I

MATH 504  Complex Analysis II

MATH 505  Introduction to Complex Geometry
Vector bundles. Sheaf theory and sheaf cohomology. Kähler manifolds. Chow rings. Lefschetz (1,1)-theorem. The hodge conjecture, i.e. the (p,p) version of Lefschetz’s theorem. Credit units: 3 ECTS Credit Units: 6.

MATH 507  Introduction to Potential Theory

MATH 509  Topics in Operator Theory

MATH 523  Algebra I
Category-theoretic language. Review of groups, rings, modules. Applications of Zorn's Lemma, including the algebraic closure of a field. Galois theory. Credit units: 3 ECTS Credit Units: 6. Aut (M. Sezer)

MATH 524  Algebra II

MATH 525  Group Representations
MATH 535  Topology of Algebraic Varieties

MATH 543  Methods of Applied Mathematics I
Functions spaces, orthogonal polynomials and Fourier analysis, generalized functions. Ordinary differential equations, Green's function, Sturm-Liouville problem, hypergeometric functions. Perturbation methods, regular perturbations, singular perturbations, boundary layer analysis, the WKB approximation. Credit units: 3 ECTS Credit Units: 6. Aut (M. Gürses)

MATH 544  Methods of Applied Mathematics II

MATH 583  Topics in Mathematical Physics I
Credit units: 3 ECTS Credit Units: 6. Prerequisite: Consent of the Instructor.

MATH 597  Graduate Seminars in Mathematics I
Each graduate student who enrolls must present at least one one-hour talk about his/her research topic. Attendance to the seminars is mandatory. Credit units: None ECTS Credit Units: None. Aut (E. Yalcın)

MATH 598  Graduate Seminars in Mathematics II
Each graduate student who enrolls must present at least one one-hour talk about his/her research topic. Attendance to the seminars is mandatory. Credit units: None ECTS Credit Units: None. Aut (E. Yalcın)

MATH 599  Master's Thesis
Credit units: None ECTS Credit Units: 24. Aut (E. Yalcın)

MATH 605  Topics in Functional Analysis I
Credit units: 3 ECTS Credit Units: 6. Prerequisite: Consent of the Instructor.

MATH 606  Selected Topics in Functional Analysis
Prerequisite: Consent of the Instructor. Credit units: 3 ECTS Credit Units: None.

MATH 611  Algebraic Topology I
Categories and functors, homotopy of paths, homotopy of maps, fundamental groups, higher homotopy groups, homology of complexes, chain homotopy, standard simplices, the singular complex, singular homology, excision theorem, Mayer-Vietoris sequences, applications of homology. Credit units: 3 ECTS Credit Units: 6.

MATH 612  Fibre Bundles I
Credit units: 3 ECTS Credit Units: 6. Aut (A. Degtyarev)

MATH 625  Homological Algebra
The course starts with standard material on homological algebra and continues with a special interest topic with instructor's consent such as special applications and calculations in algebraic topology, algebraic geometry or cohomology of groups. The standard part includes material on modules, categories, extensions of modules, derived functors and spectral sequences. Credit units: 3 ECTS Credit Units: 6.

MATH 626  Cohomology of Groups

MATH 631  Topics in Commutative Algebra

MATH 645  Riemannian Geometry I
MATH 646 Riemannian Geometry II

MATH 653 Introduction to Analytical Number Theory
Primes in an arithmetic progression; Gauss' sum; primitive characters; Dirichlet's class number formula; the distribution of the primes; Riemann's zeta-function and Dirichlet L-functions; Explicit formulae and prime number theorems; the large sieve and Bombieri-Vinogradov theorem. Credit units: 3 ECTS Credit Units: None. Spr (A. M. Gülöglü)

MATH 699 Ph.D. Dissertation
Credit units: None ECTS Credit Units: 24. Aut (E. Yalçın)
**DEPARTMENT OF MOLECULAR BIOLOGY AND GENETICS**  

Part-time: A. Arslan Ergül, E. Bilget Güven, M. Ricciardone.

The Department of Molecular Biology and Genetics provides undergraduate and graduate courses in basic and applied areas of molecular biology and genetics. The undergraduate program offers B.S. degree in Molecular Biology and Genetics and the graduate program leads to M.S. and Ph.D. degrees in Molecular Biology and Genetics. The department is equipped with modern facilities for gene analysis, cell biology, protein chemistry, recombinant DNA technology and animal experiments. The education is research oriented. The undergraduate program concentrates initially on basic knowledge in life sciences and related fields, followed by a specialized training in molecular biology and genetics. Research laboratories of the department are used for graduate student training and for the senior projects for undergraduate students. The main research activities of the department are on molecular genetics, molecular biology, molecular cell biology, molecular virology, molecular immunology, structure-function relationship of proteins and new biotechnologies.

**UNDERGRADUATE PROGRAM**

The undergraduate program aims to equip students with basic knowledge in life sciences with special emphasis on molecular biology and genetics. The education program in the first two years concentrates on basic knowledge in biology, genetics and microbiology in addition to physics, chemistry and mathematics. The last two years are dedicated to a specialized training in molecular biology, molecular cell biology and biotechnology. Theoretical courses are completed with laboratory courses with hands-on experiments.

**UNDERGRADUATE CURRICULUM**

### FIRST YEAR

<table>
<thead>
<tr>
<th>Autumn Semester</th>
<th>Credits / ECTS Credits</th>
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<tbody>
<tr>
<td>CHEM 101</td>
<td>Principles of Chemistry I</td>
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<tr>
<td>ENG 101</td>
<td>English and Composition I</td>
</tr>
<tr>
<td>GE 100</td>
<td>Orientation</td>
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<tr>
<td>MATH 101</td>
<td>Calculus I</td>
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<tr>
<td>MBG 101</td>
<td>Biology I</td>
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<tr>
<td>TURK 101</td>
<td>Turkish I</td>
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<tbody>
<tr>
<td>CHEM 102</td>
<td>Principles of Chemistry II</td>
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<td>ENG 102</td>
<td>English and Composition II</td>
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<td>Calculus II</td>
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<td>MBG 102</td>
<td>Biology II</td>
</tr>
<tr>
<td>TURK 102</td>
<td>Turkish II</td>
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### SECOND YEAR

<table>
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<tr>
<th>Autumn Semester</th>
<th>Credits / ECTS Credits</th>
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<tbody>
<tr>
<td>CHEM 233</td>
<td>Principles of Organic Chemistry I</td>
</tr>
<tr>
<td>CS 113</td>
<td>Introduction to Computing for Engineers</td>
</tr>
<tr>
<td>GE 250</td>
<td>Collegiate Activities Program I</td>
</tr>
<tr>
<td>HIST 200</td>
<td>History of Turkey</td>
</tr>
<tr>
<td>MBG 210</td>
<td>Genetics</td>
</tr>
<tr>
<td>PHYS 101</td>
<td>General Physics I</td>
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<table>
<thead>
<tr>
<th>Spring Semester</th>
<th>Credits / ECTS Credits</th>
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</thead>
<tbody>
<tr>
<td>CS 114</td>
<td>Introduction to Programming for Engineers</td>
</tr>
<tr>
<td>GE 251</td>
<td>Collegiate Activities Program II</td>
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</tbody>
</table>
MBG 223 Molecular Genetics ........................................ 4 / 7
PHYS 102 General Physics II ....................................... 4 / 6

**THIRD YEAR**

<table>
<thead>
<tr>
<th>Autumn Semester</th>
<th>Credits / ECTS Credits</th>
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<tbody>
<tr>
<td>HUM 111 Cultures Civilizations and Ideas I</td>
<td>3 / 4</td>
</tr>
<tr>
<td>MBG 301 Molecular Biology of the Cell I</td>
<td>3 / 3</td>
</tr>
<tr>
<td>MBG 311 Biochemistry I</td>
<td>4 / 6</td>
</tr>
<tr>
<td>MBG 324 Molecular Biology of the Gene</td>
<td>4 / 6</td>
</tr>
<tr>
<td>MBG 326 Introduction to Bioinformatics</td>
<td>3 / 6</td>
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<table>
<thead>
<tr>
<th>Spring Semester</th>
<th>Credits / ECTS Credits</th>
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<tbody>
<tr>
<td>HUM 112 Cultures Civilizations and Ideas II</td>
<td>3 / 4</td>
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<tr>
<td>MBG 302 Molecular Biology of the Cell II</td>
<td>4 / 6</td>
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<tr>
<td>MBG 312 Biochemistry II</td>
<td>3 / 6</td>
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<tr>
<td>MBG 316 Physiology</td>
<td>3 / 6</td>
</tr>
<tr>
<td>MBG 338 Microbiology</td>
<td>4 / 6</td>
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**FOURTH YEAR**

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<thead>
<tr>
<th>Autumn Semester</th>
<th>Credits / ECTS Credits</th>
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<tbody>
<tr>
<td>MBG 391 Summer Practice</td>
<td>- / -</td>
</tr>
<tr>
<td>MBG 416 Science and Ethics</td>
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</tr>
<tr>
<td>MBG 491 Senior Project I</td>
<td>3 / 6</td>
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<tr>
<td>Restricted Elective</td>
<td>3 / 6</td>
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<tr>
<td>Technical Elective</td>
<td>3 / 6</td>
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<tr>
<th>Spring Semester</th>
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<tbody>
<tr>
<td>MBG 418 Genomics</td>
<td>4 / 6</td>
</tr>
<tr>
<td>Non Technical Electives (2)</td>
<td>6 / 12</td>
</tr>
<tr>
<td>Restricted Elective</td>
<td>3 / 6</td>
</tr>
<tr>
<td>Technical Elective</td>
<td>3 / 6</td>
</tr>
</tbody>
</table>

**RESTRICTED ELECTIVES**

| MBG 415 Genetic Engineering and Biotechnology | 3 / 6 |
| MBG 470 Immunology                          | 3 / 6 |
| MBG 471 Membrane Biology                    | 3 / 6 |
| MBG 472 Introduction to Stem Cells          | 3 / 6 |
| MBG 473 Biomolecules, Biomaterials and Bioprocesses | 3 / 6 |
| MBG 474 Introduction to Computational Biology | 3 / 6 |
| MBG 475 Molecular Basis of Evolution        | 3 / 6 |
| MBG 480 Cell Cycle and Apoptosis            | 3 / 6 |
| MBG 481 Protein Chemistry                  | 3 / 6 |
| MBG 482 Computational Approaches to Biology | 3 / 6 |
| MBG 483 Developmental Biology              | 3 / 6 |
| MBG 485 DNA Damage and Repair Mechanisms    | 3 / 6 |
| MBG 487 Special Techniques in Molecular Genetics | 3 / 6 |
| MBG 488 Introduction to Human Genetics      | 3 / 6 |
| MBG 489 Genetics and Biology of Cancer     | 3 / 6 |
| MBG 492 Senior Project II                  | 3 / 6 |

**MINOR PROGRAM**

MBG minor program aims to provide introductory knowledge in life sciences with the selected emphasis on Molecular Biology and Genetics. The curriculum in the minor program provides a foundation in basic areas with the following aspects; the structure and expression of genes, biochemistry of proteins, cell signaling, development, the basis of inherited diseases, molecular biology of cancer, biotechnology, genomics and bioinformatics. Students are required to take four fundamental courses. "Biology I and II" provide essential knowledge about molecules of the life, central dogma,
DNA, RNA, proteins, organization of the cell, and embryogenesis and genetic diseases. These courses also provide an introduction to cell division and differentiation, molecular biology methods, recombinant DNA technology, and biotechnology, which help prepare the students for advanced courses. The "Principles of Genetics" course covers Mendelian genetics, theory of inheritance, genetic mapping, and population genetics topics in general. Finally, "Molecular Biology of the Cell" investigates how the molecular mechanisms, which are studied in the other courses, serve the cells. These courses will supply the knowledge for the minor candidates who will choose two advanced courses offered from our department related to their specific interests. Additional advanced courses can be selected according to the students’ specific needs toward their future career. The department appoints an advisor for students in the program. All elective courses are subject to advisor approval.

**Prerequisite Courses:** None

### CURRICULUM

<table>
<thead>
<tr>
<th>Courses</th>
<th>Credits / ECTS Credits</th>
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<tbody>
<tr>
<td>MBG 101 Biology I</td>
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<tr>
<td>MBG 102 Biology II</td>
<td>4 / 7</td>
</tr>
<tr>
<td>MBG 209 Principles of Genetics</td>
<td>3 / 6</td>
</tr>
<tr>
<td>MBG 301 Molecular Biology of the Cell I</td>
<td>3 / 3</td>
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<td>Electives (2)</td>
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### ELECTIVE COURSES

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<tr>
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<tbody>
<tr>
<td>MBG 309 Principles of Biochemistry</td>
<td>3 / 6</td>
</tr>
<tr>
<td>MBG 316 Physiology</td>
<td>3 / 6</td>
</tr>
<tr>
<td>MBG 326 Introduction to Bioinformatics</td>
<td>3 / 6</td>
</tr>
<tr>
<td>MBG 415 Genetic Engineering and Biotechnology</td>
<td>3 / 6</td>
</tr>
<tr>
<td>MBG 416 Science and Ethics</td>
<td>3 / 6</td>
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<tr>
<td>MBG 418 Genomics</td>
<td>4 / 6</td>
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<tr>
<td>MBG 471 Membrane Biology</td>
<td>3 / 6</td>
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<tr>
<td>MBG 472 Introduction to Stem Cells</td>
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<tr>
<td>MBG 473 Biomolecules, Biomaterials and Bioprocesses</td>
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<td>MBG 474 Introduction to Computational Biology</td>
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<td>MBG 475 Molecular Basis of Evolution</td>
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<td>MBG 487 Special Techniques in Molecular Genetics</td>
<td>3 / 6</td>
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<tr>
<td>MBG 488 Introduction to Human Genetics</td>
<td>3 / 6</td>
</tr>
<tr>
<td>MBG 489 Genetics and Biology of Cancer</td>
<td>3 / 6</td>
</tr>
</tbody>
</table>

### GRADUATE PROGRAMS

The graduate programs are organized to provide an excellent training in basic and applied research areas of molecular biology and genetics. The main research activities of the department are on molecular genetics (genetic predisposition to cancer, tumor suppressor genes, gene-disease associations), molecular biology (regulation of transcription, differential expression, epigenetics), molecular cell biology (cell cycle, apoptosis, signal transduction), immunology, bioinformatics, neurophysiology, metabolic diseases.

**Master of Science in Molecular Biology and Genetics**

**Admission:** All applicants are required to have a B.S. degree in molecular biology and genetics, biology, or in a related field of science or engineering. Students with a B.S. degree in chemistry, chemical engineering, physics or a related field may also apply; however, such students may be requested to take several undergraduate courses in molecular biology and genetics to acquire necessary background in the field. Evaluation of applicants is based on their ALES (Akademik Personel ve Lisansüstü Eğitimİ Giriş. Sinav - Academic Personnel and Postgraduate Education Entrance Examination) scores, past academic records, reference letters and an interview. Applicants who are not Turkish citizens and Turkish citizen applicants who are residents of another country may
take GRE instead of ALES. All non-native speakers of English are required to submit a proof of satisfactory knowledge of English.

Degree Requirements: In addition to at least 24 credit units of course work, the M.S. degree candidate must prepare and successfully defend a thesis. Expected duration to complete the M.S. program is four semesters; the maximum duration is six semesters.

Doctor of Philosophy in Molecular Biology and Genetics

Admission: All applicants are required to have a B.S. degree in molecular biology and genetics or in biology. Other related professional degree holders such as M.D. or veterinary M.D. may also apply. Evaluation of applicants is based on their ALES (Akademik Personel ve Lisansüstü Eğitimi Giriş Sınavı - Academic Personnel and Postgraduate Education Entrance Examination) scores, past academic records, reference letters and an interview. Applicants who are not Turkish citizens and Turkish citizen applicants who are residents of another country may take GRE instead of ALES. All non-native speakers of English are required to submit a proof of satisfactory knowledge of English.

Degree Requirements: 24 credit units of course work beyond the M.S. level or 48 credits of course work beyond the B.S. level is required. PhD candidates must pass a qualifying exam typically on their fourth semester, and then must prepare a thesis work proposal. Preparing and defending a dissertation based on original research is the essence of the program. A dissertation based on original research is the essence of the program. The expected duration to complete the Ph.D. program is eight semesters for students who enter the program after a M.S. degree, and ten semesters for those who enter after a B.S. degree. The maximum durations are 12 and 14 semesters, respectively.

COURSE DESCRIPTIONS

UNDERGRADUATE COURSES

MBG 101  Biology I
Molecules of the life, central dogma (DNA, RNA, protein), organization of the cell, embryogenesis and genetic diseases. Credit units: 4 ECTS Credit Units: 7. Aut (A. Ö. Güre)

MBG 102  Biology II
Introduction to cell division and differentiation introduction to the molecular biology methods, recombinant DNA technology, biotechnology. (Laboratory work is obligatory) Credit units: 4 ECTS Credit Units: 7, Prerequisite: MBG 101. Spr (Ö. Konu)

MBG 105  Principles of Biology
This course is for students from the Physics, Chemistry and Mathematics Departments. Molecules of life, organization of the cell, chromosomes and cell division, patterns of inheritance, evolution, recombinant DNA technology, genetic diseases. Credit units: 3 ECTS Credit Units: 5. Aut (E. Bilge Güven, R. Çetin-Atalay)

MBG 110  Introduction to Modern Biology
This course is for students from Faculty of Engineering. Molecules of life, organization of the cell, chromosomes and cell division, genetics, molecular genetics, recombinant DNA technology, genetic diseases, evolution, animal development, biotechnology. Credit units: 3 ECTS Credit Units: 6. Aut (D. Atasoy, E. Bilge Güven, E. Erbay, T. Özçelik) Spr (D. Atasoy, R. Çetin-Atalay, Ö. Şahin)

MBG 209  Principles of Genetics
Transmission genetics, gene and chromosomal mutations, linkage and mapping, molecular genetic applications, population and quantitative genetics, molecular evolution, model organism genomics and bioinformatics. Credit units: 3 ECTS Credit Units: None. Aut (Ö. Konu)

MBG 210  Genetics
Mendelian genetics, chromosome theory of inheritance, linkage, genetic mapping in eukaryotes and prokaryotes, chromosomal mutations, gene mutations, molecular genetics, population genetics, quantitative genetics, molecular evolution. Credit units: 4 ECTS Credit Units: 7. Aut (Ö. Konu)
MBG 222  Fundamentals of Molecular Genetics
Molecular biology of gene regulation, fundamentals of DNA repair and recombination, detailed analysis of transposition and retroposition in eukaryotes, molecular mechanisms of eukaryotic and prokaryotic protein synthesis. Credit units: 3 ECTS Credit Units: 6. Spr (A. Arslan Ergül)

MBG 223  Molecular Genetics
Mechanism of protein synthesis, usage of the genetic code, protein localization, the structure of genetic material, regulation of transcription, recombination, repair, and transposition in bacteria, an introduction to gene rearrangements. (Laboratory work is obligatory) Credit units: 4 ECTS Credit Units: 7. Spr (A. Arslan Ergül)

MBG 301  Molecular Biology of the Cell I
This course aims an in-depth understanding of cell signaling. We start by studying the signal/receptor families individually, and move on to a synthesis by studying examples from developmental biology and cancer. Selected original articles that from the foundations and principles of cell signaling are analyzed and criticized thoroughly as part of the coursework. Credit units: 3 ECTS Credit Units: 3. Prerequisite: MBG 101 or MBG 105 or MBG 110. Aut (A. O. Gür)

MBG 302  Molecular Biology of the Cell II
Germ cells and fertilization, early embryonic development, stem cells, generation and maintenance of differentiated cells, immune cells, cancer cells, specialized techniques in cell biology, light and fluorescent microscopy, flow cytometry, techniques used for cell proliferation and apoptosis studies. (Laboratory work is obligatory) MBG 301, consent of the instructor. Credit units: 4 ECTS Credit Units: 6. Spr (D. Atasoy)

MBG 309  Principles of Biochemistry
This course is for students from the Chemistry Department. The molecules of the life (DNA, RNA, and Proteins), their building blocks and chemical bonds protein structures and functions enzyme kinetics, motor proteins and protein analysis techniques. Credit units: 3 ECTS Credit Units: 6. Aut (Ö. Şahin)

MBG 311  Biochemistry I
Introductory biochemistry, bioenergetics, protein structure, protein purification and characterization, enzymatic activity, kinetics, allosteroy, vitamins and coenzymes. Credit units: 4 ECTS Credit Units: 6. Aut (Ö. Şahin)

MBG 312  Biochemistry II
Introduction to intermediary metabolism, polysaccharides, energy storage, lipids and membrane structure nucleic acid structure and nucleotide metabolism. Credit units: 3 ECTS Credit Units: 6. Prerequisite: consent of the instructor. Spr (E. Bilgel Güven)

MBG 316  Physiology
Homeostatic and biological control mechanisms in major body systems, including skeletal system, muscle system, nervous system, circulatory system, respiratory system, digestive system, excretory system, reproductive system and immune system. Credit units: 3 ECTS Credit Units: 6. Spr (Staff)

MBG 324  Molecular Biology of the Gene
Molecular biology of eukaryotes including genome organization and chromosome structure, gene structure, protein structure and synthesis, regulation of gene expression. RNA splicing and processing, catalytic RNA. (Laboratory work is obligatory) Credit units: 4 ECTS Credit Units: 6. Aut (I. Yülug)

MBG 326  Introduction to Bioinformatics
Computer use in molecular biology networks, access to online databases, structure comparison, structure prediction. Homology based protein 3-D structure modeling. Credit units: 3 ECTS Credit Units: 6. Aut (R. Çetin-Atalay)

MBG 338  Microbiology
Structure, growth and physiology of microorganisms, classification of bacteria, diverse activities of bacteria, viruses, microbial pathogenicity, exploitation of microorganisms by man. Credit units: 4 ECTS Credit Units: 6. Spr (I. Gürsel)

MBG 391  Summer Practice
A project on a special topic in an area of biology to be carried out by the student under the supervision of a faculty member, at the department or another institution. Credit units: None ECTS Credit Units: None. Aut (I. Yülug) Spr (I. Yülug)

MBG 416  Science and Ethics
Scientific concepts, history of science, the birth of modern science, science and society, ethics of science. Credit units: 3 ECTS Credit Units: 6. Aut (I. Gürsel)

MBG 418  Genomics
MBG 452  Practical Biology  
This course is for students from faculty of Education. Practical techniques for the biology laboratory, biological experiments, and problem solving in biology. The course involves one hour of discussion and four hours of laboratory work per week. The students carry out practical projects.  
Credit units: 3 ECTS  
Credit Units: 6.  
Spr (J. F. Lane)

MBG 470  Immunology  
Adaptive and innate immunity, humoral and cell mediated immunity, the lymphoid system, antibody structure and function, antigen-antibody interactions, the antibody response, immunological tolerance, immunity to diseases, complements and hypersensitivity, cytokines, major histocompatibility complex.  
Credit units: 3 ECTS  
Credit Units: 6.  
(J. F. Lane)

MBG 472  Introduction to Stem Cells  
Credit units: 3 ECTS  
Credit Units: 6.  
Spr (I. Gürsel)

MBG 473  Biomolecules, Biomaterials and Bioprocesses  
Utilization of biological macromolecules as a biomaterial, principles applied to harness these biological complex molecules in biology, medicine and pharmaceutical biotechnology discussion of the selected cutting edge research papers.  
Credit units: 3 ECTS  
Credit Units: 6.  
Aut (I. Gürsel)

MBG 475  Molecular Basis of Evolution  
Darwin and the origin of species, the mechanisms of molecular evolution, genomic evolution, variation in species, genes in populations, molecular phylogenetics, transitions and evolution of modern humans.  
Credit units: 3 ECTS  
Credit Units: 6.  
Spr (M. Ricciardone)

MBG 483  Developmental Biology  
Credit units: 3 ECTS  
Credit Units: 6.  
Spr (I. Gürsel)

MBG 484  DNA Damage and Repair Mechanisms  
Homologous recombination and role of double strand breaks, base excision repair pathway, mismatch repair, nucleotide excision repair and links with transcription, DNA double strand break repair and V(D)J recombination, cellular responses to DNA damage.  
Credit units: 3 ECTS  
Credit Units: 6.  
Spr (A. O. Güne)

MBG 487  Special Techniques in Molecular Genetics  
Principles of specific methods used in the molecular genetics site-directed mutagenesis, phage display technology, cDNA selection, exon trapping, library making and screening. Discussions of selected research papers.  
Credit units: 3 ECTS  
Credit Units: 6.  
Spr (I. Yulug)

MBG 488  Introduction to Human Genetics  
Principles of human genetics, patterns of single gene inheritance, human molecular genetics, the human gene map, cytotgenetics, the molecular and biochemical basis of genetic disease, genetic counseling, prenatal diagnosis.  
Credit units: 3 ECTS  
Credit Units: 6.  
Spr (T. Özcülek)

MBG 491  Senior Project I  
A project on a specific topic in an area of molecular biology or genetics to be carried out by the student under the supervision of a faculty member.  
Credit units: 3 ECTS  
Credit Units: 6.  
Aut (E. Erbay) Spr (Staff)

MBG 492  Senior Project II  
A project on a specific topic in an area of molecular biology or genetics to be carried out by the student under the supervision of a faculty member.  
Credit units: 3 ECTS  
Credit Units: 6.  
Prerequisite: MBG 491.  
Spr (Staff)

GRADUATE COURSES

MBG 502  Advanced Cellular Biology  
Cell structure and function, the cytoskeleton, intracellular compartments, vesicular trafficking, the cell-division cycle, cell junctions, cell adhesion, extracellular matrix and development.  
Credit units: 3 ECTS  
Credit Units: 6.  
Aut (M. Öztürk)

MBG 503  Advanced Molecular Biology  
Chromosomal DNA and its packaging, higher-order organization of chromosomes, replication, recombination, control of gene expression, signaling pathways, cell cycle.  
Credit units: 3 ECTS  
Credit Units: 6.  
Spr (I. Yulug)

MBG 505  Advanced Molecular Genetics  
Organization of the genome, Mendelian and non-Mendelian inheritance, mitochondrial genome, mutigene families and repetitive DNA, polymorphism and polymorphic markers, genetic mapping, physical mapping, models of studying gene structure and function.  
Credit units: 3 ECTS  
Credit Units: 6.  
Aut (Ö. Konu)
MBG 509  Special Topics in Molecular Biology I  
Current topics in molecular biology, comprehensive reading, critical evaluations of scientific references, seminar presentations and class participation.  
Credit units: 3 ECTS  
Credit Units: 6.  
Aut (R. Çetin-Atalay)

MBG 510  Special Topics in Molecular Biology II  
Current topics in molecular biology, comprehensive reading, critical evaluations of scientific references, seminar presentations and class participation.  
Credit units: 3 ECTS  
Credit Units: 6.  
Spr (Staff)

MBG 513  Bioinformatics  
Commonly used databases in molecular biology, genetics and related fields, homology search for genes and proteins, primer design, molecular operations, restriction mapping, structure prediction.  
Credit units: 3 ECTS  
Credit Units: 6.  
Spr (Ö. Konu)

MBG 516  Biomolecules, Biomaterials and Bioprocesses  
Basic biomolecules (from simple molecules such as amino acids to macro molecules such as proteins and DNA) and principles of biology from material science perspective. This course must be a core course given very early in the curriculum.  
Credit units: 3 ECTS  
Credit Units: 6.  
Spr (ÈO. Konu)

MBG 599  Master’s Thesis  
Credit units: None  
ECTS Credit Units: 24.  
Aut (I. Yuluğ)  
Spr (I. Yuluğ)

MBG 601  Human Genetics  
Molecular genetics of human diseases, chromosomal abnormalities, biochemical genetics, genetic basis of cancer, genome projects, molecular medicine, genetic counseling, DNA based diagnostics, population genetics.  
Credit units: 3 ECTS  
Credit Units: 6.  
Spr (T. Öçelik)

MBG 602  Molecular and Cellular Immunology  
Basic elements of the immune system, molecular biology of antigen recognition, B and T lymphocytes, cellular and genetic basis of immunity, regulation and development of immune system, immune system deficiencies in humans, vaccination and adaptive immunotherapy.  
Credit units: 3 ECTS  
Credit Units: 6.  
Spr (I. Gürsel)

MBG 603  Molecular Bases of Cancer  
Cancer as a multi gene disease, oncogenes, tumor suppressor genes, mutator genes, gene therapy of cancer, germ-line and somatic mutations and cancer, genes involved in abnormal proliferation and metastatic behavior of cancer cells, immune response to cancer, familial cancers, virus-induced cancers.  
Credit units: 3 ECTS  
Credit Units: 6.  
Spr (Ö. Şahin)

MBG 607  Gene Therapy  
Current topics in human somatic cell gene therapy, viral and nonviral gene transfer techniques, gene therapy applications in hereditary and acquired diseases, ethical issues in genetic modification of humans.  
Credit units: 3 ECTS  
Credit Units: 6.  
Aut (M. Ricciardone)

MBG 608  Principles of Gene Expression  
Mechanisms of transcription, chromatin modifying and remodeling complexes, regulation of tissue specific gene expression, consequences of gene expression deregulation.  
Credit units: 3 ECTS  
Credit Units: 6.  

MBG 612  Special Topics in Genetics I  
Current topics in molecular genetics, comprehensive reading, critical evaluation of scientific literatures seminar presentations and class participation.  
Credit units: 3 ECTS  
Credit Units: 6.  
Aut (R. Çetin-Atalay)

MBG 613  Special Topics in Genetics II  
Current topics in molecular genetics, comprehensive reading, critical evaluation of scientific literatures seminar presentations and class participation.  
Credit units: 3 ECTS  
Credit Units: 6.  
Spr (Staff)

MBG 616  Experimental Molecular Biology and Genetics I  
An introduction to basic molecular biology and genetics techniques. The student spends a half semester with one of the research groups and participates in some aspects of the research being pursued by the faculty member.  
Credit units: 3 ECTS  
Credit Units: 6.  
Aut (T. Öçelik)

MBG 617  Experimental Molecular Biology and Genetics II  
An introduction to advanced molecular biology and genetics techniques. The student spends a half semester with one of the research groups and participates in some aspects of the research being pursued by the faculty member.  
Credit units: 3 ECTS  
Credit Units: 6.  
Spr (T. Öçelik)

MBG 618  Advanced Developmental Biology  
The concepts of development in a variety of organisms. Molecular mechanisms of embryonic development in model organisms. Early development, developmental abnormalities. The correlation between the expression and function of gene and cell fate and tissue interactions. Discussion of classic and current research articles.  
Credit units: 3 ECTS  
Credit Units: 6.
MBG 623 Seminars in Molecular Genetics I
The course will be based on class presentations and discussions of novel concepts in Molecular Genetics. Articles selected by the staff will be introduced and discussed with the students in the form of paper presentations and seminars. Students will be encouraged to carry out a critical analysis of novel as well as milestone “classical” articles in the field of Molecular Genetics. Credit units: None ECTS Credit Units: None. Aut (I. Yuluğ)

MBG 624 Seminars in Molecular Genetics II
The course will be based on class presentations and discussions of novel concepts in Molecular Genetics. Articles selected by the staff will be introduced and discussed with the students in the form of paper presentations and seminars. Students will be encouraged to carry out a critical analysis of novel as well as milestone “classical” articles in the field of Molecular Genetics. Credit units: None ECTS Credit Units: None. Spr (T. Özçelik)

MBG 699 Ph.D. Dissertation
Credit units: None ECTS Credit Units: 24. Aut (I. Yuluğ) Spr (Staff)
DEPARTMENT OF PHYSICS


Part-time: A. Ceylan.

The Department of Physics offers courses that lead to B.S., M.S., and Ph.D. degrees. The department facilities compound semiconductor research and technology laboratory consisting of Class 100 and Class 10 000 clean rooms housing a mask aligner, SEM, PECVD, RIE, UHV evaporator, magnetron sputterer, RTP, I-V, C-V and microwave measurement setups. Experimental research areas include PL and Raman Spectroscopy and III-V micro and optoelectronic device technologies. Research areas include the study of condensed matter physics, optoelectronic devices, nanoscience, lasers and photonics, statistical physics, material science, semiconductor physics, computational physics, ultrafast optics, surface physics, mesoscopic physics.

UNDERGRADUATE PROGRAM

The undergraduate program is structured with the assumption that the student will continue his or her education towards an M.S. and a Ph.D. degree in Physics. The Department therefore admits a small number of highly qualified students every year. The program enables the student to attain a basic background in all areas of physics and at the same time provides a solid background in the area of condensed matter physics. A number of elective courses are offered for students whose interests may develop in other areas.

UNDERGRADUATE CURRICULUM

FIRST YEAR

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<tr>
<td>CHEM 101</td>
<td>Principles of Chemistry I</td>
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<tr>
<td>ENG 101</td>
<td>English and Composition I</td>
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<tr>
<td>GE 100</td>
<td>Orientation</td>
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<tr>
<td>MATH 101</td>
<td>Calculus I</td>
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<td>PHYS 101</td>
<td>General Physics I</td>
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<tr>
<td>PHYS 120</td>
<td>Orientation for Physics Majors</td>
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<tr>
<td>TURK 101</td>
<td>Turkish I</td>
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<tr>
<td><strong>Spring</strong></td>
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<tr>
<td>CS 113</td>
<td>Introduction to Computing for Engineers</td>
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<td>PHYS 124</td>
<td>Freshman Project</td>
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<td>TURK 102</td>
<td>Turkish II</td>
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SECOND YEAR

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<th>Semester</th>
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<tbody>
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<td><strong>Fall</strong></td>
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<tr>
<td>CHEM 201</td>
<td>Materials Science and Technology</td>
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<tr>
<td>GE 250</td>
<td>Collegiate Activities Program I</td>
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<tr>
<td>HIST 200</td>
<td>History of Turkey</td>
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<td>MATH 241</td>
<td>Engineering Mathematics I</td>
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<td>MBG 105</td>
<td>Principles of Biology</td>
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<td>PHYS 211</td>
<td>Waves, Fluids and Thermodynamics</td>
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<td><strong>Spring</strong></td>
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<tr>
<td>GE 251</td>
<td>Collegiate Activities Program II</td>
</tr>
<tr>
<td>MATH 242</td>
<td>Engineering Mathematics II</td>
</tr>
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</table>
The minor program is designed to attract bright students from other majors and provide them with a strong background in the main concepts that are usually found in a physics undergraduate curriculum. The program is designed to expose the students to both theoretical and experimental methods in physics and lead them towards interdisciplinary research areas. The strong physics background provided by the minor program will be advantageous to students who choose to go on to graduate study in Physics as well as other science and engineering disciplines.

**Prerequisite Courses:**
- PHYS 101 General Physics I
- PHYS 102 General Physics II
- MATH 101 Calculus I
- MATH 102 Calculus II

<table>
<thead>
<tr>
<th>Courses</th>
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<tbody>
<tr>
<td>PHYS 218 Analytical Mechanics</td>
<td>3 / 6</td>
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<tr>
<td>PHYS 218 Analytical Mechanics</td>
<td>3 / 6</td>
</tr>
<tr>
<td>PHYS 242 Advanced Calculus for Applications in Physics</td>
<td>3 / 6</td>
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**THIRD YEAR**

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<tr>
<td>HUM 111 Cultures Civilizations and Ideas I</td>
<td>3 / 4</td>
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<tr>
<td>PHYS 291 Summer Practice</td>
<td>- / -</td>
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<tr>
<td>PHYS 315 Electromagnetic Theory I</td>
<td>3 / 6</td>
</tr>
<tr>
<td>PHYS 325 Quantum Mechanics I</td>
<td>3 / 7</td>
</tr>
<tr>
<td>PHYS 334 Statistical Physics</td>
<td>3 / 6</td>
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<tr>
<td>Technical Elective</td>
<td>3 / 6</td>
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<tr>
<th>Spring Semester</th>
<th>Credits / ECTS Credits</th>
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<tr>
<td>HUM 112 Cultures Civilizations and Ideas II</td>
<td>3 / 4</td>
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<tr>
<td>PHYS 371 Numerical Methods in Physics</td>
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<td>PHYS 374 Experimental Methods of Physics</td>
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<tr>
<td>Elective</td>
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**FOURTH YEAR**

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<tr>
<th>Autumn Semester</th>
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<tr>
<td>PHYS 491 Senior Project I</td>
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<tr>
<td>Elective</td>
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<tr>
<td>Non Technical Elective</td>
<td>3 / 6</td>
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<tr>
<td>Technical Electives (2)</td>
<td>6 / 12</td>
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<th>Spring Semester</th>
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<tr>
<td>PHYS 492 Senior Project II</td>
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<td>Elective</td>
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<td>Non Technical Elective</td>
<td>3 / 6</td>
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<tr>
<td>Technical Electives (2)</td>
<td>6 / 12</td>
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**MINOR PROGRAM**
ELECTIVE COURSES

PHYS 211 Waves, Fluids and Thermodynamics ........................................ 4 / 10
PHYS 212 Optics and Modern Physics ....................................................... 4 / 10
PHYS 315 Electromagnetic Theory I ......................................................... 3 / 6
PHYS 316 Electromagnetic Theory II ......................................................... 3 / 6
PHYS 326 Quantum Mechanics II .............................................................. 3 / 6
PHYS 415 Optics ......................................................................................... 3 / 6
PHYS 445 Condensed Matter Physics I ......................................................... 3 / 6
PHYS 446 Condensed Matter Physics II ......................................................... 3 / 6
PHYS 453 Nuclear and Particle Physics ......................................................... 3 / 6

GRADUATE PROGRAMS

The graduate program aims to develop students into scientists who can pursue original and creative research activities. This program is an important part of the research activity which aims to produce significant scientific output on an international level. The graduate program emphasizes research in various fields of condensed matter physics, in relation to the rapidly developing high technology fields such as photonics, nanoscience and nanotechnology. Presently, research is in progress in the theoretical and experimental study of tunneling, physics of electrons in lower dimensionalities, nanoscience, statistical mechanics, many-body physics, strongly correlated electrons, properties of new materials, fabrication and theoretical analysis of new devices, computational physics, ultrafast optics, optoelectronic devices.

Master of Science in Physics

Admission: All Applicants are required to have a B.S. degree in physics, or in a related field of science or engineering. Students with a B.S. degree in areas other than physics may be requested to take several undergraduate courses in the field to acquire the necessary background. Evaluation of applicants is based on their ALES (Akademik Personel ve Lisansüstü Eğitimİ Giriş Sınavı - Academic Personnel and Postgraduate Education Entrance Examination) scores, past academic records, reference letters and an interview. Applicants who are not Turkish citizens and Turkish citizen applicants who are residents of another country may take GRE instead of ALES. All non-native speakers of English are required to submit a proof of satisfactory knowledge of English.

Degree Requirements: In addition to at least 24 credit units of course work, the M.S. degree candidate must prepare and successfully defend a thesis. Expected duration to complete the M.S. program is four semesters; the maximum duration is six semesters.

Doctor of Philosophy in Physics

Admission: All applicants are required to have a B.S. degree in physics, or in a related field of science or engineering. Evaluation of applicants is based on their ALES (Akademik Personel ve Lisansüstü Eğitimİ Giriş Sınavı - Academic Personnel and Postgraduate Education Entrance Examination) scores, past academic records, reference letters and an interview. Applicants who are not Turkish citizens and Turkish citizen applicants who are residents of another country may take GRE instead of ALES. All non-native speakers of English are required to submit a proof of satisfactory knowledge of English.

Degree Requirements: 24 credit units of course work beyond the M.S. level or 48 credits of course work beyond the B.S. level is required. PhD candidates must pass a qualifying exam typically on their fourth semester, and then must prepare a thesis work proposal. Preparing and defending a dissertation based on original research is the essence of the program. A dissertation based on original research is the essence of the program. The expected duration to complete the Ph.D. program is eight semesters for students who enter the program after a M.S. degree, and ten semesters for those who enter after a B.S. degree. The maximum durations are 12 and 14 semesters, respectively.
PHYS 101  General Physics I
Standards and units; vectors and coordinate systems; kinematics; dynamics; work, energy and power; conservation of energy; dynamics of system of particles; collisions; rotational kinematics and dynamics; equilibrium of rigid bodies; oscillations. Credit units: 4 ECTS Credit Units: 6. Aut (A. Aydını, A. Ceylan, O. Gülseren, T. T. Hakoğlu, C. Kocabaş, E. Özbay, B. Tanatar, G. Volpe) Spr (C. Bulutay, S. Çiráci, Z. A. Ercelebi, A. Gökalp, B. Hetényi)

PHYS 102  General Physics II
Charge and matter; electric field and Gauss’ law; DC circuits; magnetic field; Ampere’s law; Faraday’s law; inductance; magnetic properties of matter; Maxwell’s equations. Credit units: 4 ECTS Credit Units: 6, Prerequisite: MATH 101 or MATH 111 or MATH 113 or PHYS 101 or PHYS 111. Aut (S. Çiráci, Z. A. Ercelebi, A. Gökalp, B. Hetényi) Spr (A. Aydını, A. Ceylan, O. Gülseren, F. Ö. İlday, C. Kocabaş, M. Ö. Oktel, E. Özbay, B. Tanatar, G. Volpe)

PHYS 105  Engineering Physics I
Vectors and coordinate systems; kinematics; dynamics; work, energy and power; conservation of energy; dynamics of system of particles; collisions; rotational kinematics and dynamics; equilibrium of rigid bodies; oscillations; wave phenomena; gravitation; fluid mechanics; fundamental concepts in thermodynamics. Credit units: 4 ECTS Credit Units: 8.

PHYS 106  Engineering Physics II
Charge and matter; electric field and Gauss’ law; DC circuits; magnetic field; Ampere’s law; Faraday’s law; inductance; magnetic properties of matter; Maxwell’s equations; electromagnetic waves; geometric optics; interference; diffraction; introductory topics in modern physics. Credit units: 4 ECTS Credit Units: 8.

PHYS 107  Basic Physics I
The course aims to present the basic concepts and laws of mechanics at the level where the relevant mathematics does not require a priori knowledge of calculus. The topics studied include: vectors; translational and rotational kinematics and dynamics of particles and systems; work and energy; collisions; harmonic oscillations. Credit units: 4 ECTS Credit Units: 6. Aut (C. Bulutay)

PHYS 108  Basic Physics II
The course aims to present the basic concepts and laws of electricity and magnetism at the level where the relevant mathematics does not require a priori knowledge of calculus. The topics studied include: charge and matter; Coulomb’s law; electric field and potential; DC circuits; magnetic field; Ampere’s and Faraday’s laws. Credit units: 4 ECTS Credit Units: 6.

PHYS 111  Mechanics
Vectors and coordinate systems; kinematics; dynamics; work and energy; dynamics of system of particles; conservation of energy and momentum, collisions; rotational kinematics and dynamics; equilibrium of rigid bodies; oscillations; gravitation; waves; fluid mechanics; thermodynamics. Credit units: 5 ECTS Credit Units: 7.

PHYS 112  Electricity and Magnetism
Charge and matter; electric field and Gauss’ law; DC circuits; magnetic field; Ampere’s law; Faraday’s law; inductance; magnetic properties of matter; Maxwell’s equations; electromagnetic waves; optics. Credit units: 5 ECTS Credit Units: 7, Prerequisite: MATH 101 or MATH 113.

PHYS 117  Basic Physics: Mechanics
The course aims to present the basic concepts and laws of mechanics at the level where the relevant mathematics does not require a priori knowledge of calculus. The topics studied include: vectors; translational and rotational kinematics and dynamics of particles and systems; work and energy; collisions; harmonic oscillations. Credit units: 3 ECTS Credit Units: 6. Aut (C. Bulutay)

PHYS 118  Basic Physics II
The course aims to present the basic concepts and laws of electricity and magnetism at the level where the relevant mathematics does not require a priori knowledge of calculus. The topics studied include: charge and matter; Coulomb’s law; electric field and potential; DC circuits; magnetic field; Ampere’s and Faraday’s laws. Credit units: 3 ECTS Credit Units: 4. Spr (M. Bayındır)

PHYS 120  Orientation for Physics Majors
Introduction to the different aspects of the “physics department” for first year physics majors. Students will be introduced to the department and its members. Faculty members and students meet once a week for discussions and presentations to introduce a variety of subjects areas. Students are expected to become familiar with their prospective academic life as a physicist. Credit units: 1 ECTS Credit Units: 2. Aut (F. Ö. İlday)
PHYS 122  Orientation for Physics Majors II
Introduction to various aspects of the "Physics Department" for first year physics majors. Faculty members and students meet once a week for discussion and presentations students are expected to become familiar with their prospective academic life as a Physicist. Credit units: 1 ECTS Credit Units: 3.

PHYS 124  Freshman Project
A project on a specific topic in physics or a closely related area will be undertaken by the student under the supervision of a faculty member. The course will expose the student to research through projects that required no prior knowledge beyond the high school level. Additional teaching goals include practicing critical thinking, analyzing cause and effect relationships, planning controlled experiments as well as gaining familiarity with useful skills such as literature search and scientific document preparation. Credit units: 2 ECTS Credit Units: 2. Spr (F. O. İlday)

PHYS 200  Physics for Poets
This course aims to present basic ideas of modern science to non-science majors with very little background in mathematics and physics. Scientific objectivity, science of mechanics, Newton's laws, electricity and magnetism, waves, special and general relativity, cosmology, atoms, particles and waves, uncertainty principle, quantum theory, fundamental constituents of matter, forces of nature. Credit units: 3 ECTS Credit Units: 5. Spr (M. Bayındır)

PHYS 211  Waves, Fluids and Thermodynamics
Fluid mechanics, gravitation, periodic motion, mechanical waves, sound, and hearing, temperature and heat, thermal properties of matter, first and second laws of thermodynamics. Credit units: 4 ECTS Credit Units: 10. Aut (F. Ö. İlday)

PHYS 212  Optics and Modern Physics
Electromagnetic waves, nature of propagation of light, geometrical optics, interference, diffraction, relativity, photons as particles, particles as waves, quantum mechanics, atomic physics, particle physics. Credit units: 4 ECTS Credit Units: 10. Prerequisite: PHYS 101 or PHYS 111. Spr (F. Ö. İlday)

PHYS 218  Analytical Mechanics
Generalized coordinates, constraints, variational principles, Lagrange's equations, central force problem, motion in non-inertial frames, rigid body dynamics, Hamilton's equations, theory of small vibrations. Credit units: 3 ECTS Credit Units: 6. Prerequisite: PHYS 101 or PHYS 111. Spr (T. T. Hakioğlu)

PHYS 242  Advanced Calculus for Applications in Physics
Special functions of mathematical physics, hypergeometric functions, Sturm-Liouville theory, Green's functions, integral transforms, integral equations, probability. Credit units: 3 ECTS Credit Units: 6. Prerequisite: MATH 102 or MATH 114. Spr (T. T. Hakioğlu)

PHYS 291  Summer Practice
The summer practice entails the students carrying out a project on a specific topic in physics or a related area. The project can be carried under the supervision of an experienced researcher at a university, a research institution or an industrial entity. The nature of the work can range anywhere from applied or engineering to pure research. The main goal is to introduce the student to real-life work environments, be it in an industrial setting or a traditional academic research environment. The main learning goals include attaining experience of working on a specific, well-defined project to its completion, including preparation of periodic and final progress reports in a professional manner, gaining experience with functioning in a team of co-workers. Minimum duration 30 work days. Credit units: None ECTS Credit Units: None. Aut (C. Kocabas Ö.)

PHYS 315  Electromagnetic Theory I
Electrostatics; Coulomb's and Gauss' laws, the scalar potential. Solutions to the Laplace equation in rectangular, spherical and cylindrical coordinate systems with various boundary conditions. Poisson's equation; energy in the electric field; electrostatics of materials; capacitance. Magnetostatics: Biot-Savart and Ampere's laws, the field vector potential; energy in the magnetic field; magnetostatics of materials; Faraday's law; inductance. Credit units: 3 ECTS Credit Units: 6. Aut (C. Bulutay)

PHYS 316  Electromagnetic Theory II
Maxwell's equations; electromagnetic waves; reflections from boundaries; propagation in waveguides; radiation from accelerating charges; Lorentz transformations of electric and magnetic fields. Credit units: 3 ECTS Credit Units: 6. Prerequisite: PHYS 315 or consent of the instructor. Spr (C. Bulutay)

PHYS 325  Quantum Mechanics I
Wave packets and uncertainty; the postulates of quantum mechanics; eigenfunctions and eigenvalues; simple problems in one dimension; general structure of wave mechanics; operator methods in quantum mechanics; harmonic oscillator; path integral formulation of quantum mechanics; systems of many degrees of freedom; symmetry; rotational invariance and angular momentum; hydrogen atom. Credit units: 3 ECTS Credit Units: 7. Aut (C. Yalabık)
PHYS 326  Quantum Mechanics II
Spin; addition of angular momenta; approximation methods in quantum mechanics; atoms and molecules; scattering theory; quantum theory of electromagnetic radiation. Credit units: 3 ECTS Credit Units: 6. Prerequisite: PHYS 325. Spr (C. Yalabık)

PHYS 334  Statistical Physics
The laws of thermodynamics; applications of thermodynamics; basic probability concepts; elementary kinetic theory; classical microcanonical, canonical and grand canonical ensembles; classical ideal gas; equipartition of energy; quantum mechanical ensembles; ideal Fermi and Bose systems; black body radiation, phonons, the electron gas; magnetism; introductory nonequilibrium statistical physics. Credit units: 3 ECTS Credit Units: 6. Aut (G. Volpe)

PHYS 371  Numerical Methods in Physics
Solutions to linear systems of equations; roots of polynomials and other nonlinear functions; statistical applications; determinants, eigenvalues, and eigenvectors, solutions to differential equations; applications of FFT; utilization of scientific software packages. (Emphasis will be placed on physical applications.) Credit units: 3 ECTS Credit Units: 6. Spr (G. Volpe)

PHYS 374  Experimental Methods of Physics
Laboratory safety, principles of experimentation, statistical analysis of data such as error calculation, propagation of error, least squares fitting, instrumentation techniques such as vacuum physics and technology, temperature measurements, cryogenics and selected experiments in modern physics such as Franck-Hertz experiment, x-ray diffraction, electron diffraction, superconductivity, electron spin resonance, gamma absorption. Credit units: 4 ECTS Credit Units: 6. Spr (A. Aydinlı)

PHYS 415  Optics
Survey of optics, covering electromagnetic waves, interference, diffraction, reflection and refraction, laser gain. This will be followed by discussions of selected advanced topics, such as optical resonators, cw and pulsed lasers, including the interaction of light with matter, nonlinear optics, and fiber optics. The particular selection of the advanced topics can vary from year to year. Credit units: 3 ECTS Credit Units: 6.

PHYS 420  Nanoscience and Nanotechnology I

PHYS 438  Atomic and Molecular Physics
Transition properties and the selection rules for atoms; many electron atoms; Born-Oppenheimer approximation; molecular structure: electronic; vibrational, and rotational energies of molecules; general methods for calculations; spectroscopic methods. Credit units: 3 ECTS Credit Units: 6.

PHYS 445  Condensed Matter Physics I
Crystal diffraction; crystal binding; phonons and lattice vibrations; thermal, acoustic and optical properties; free electron model; energy bands, electron-phonon interactions; semiconductors; transport properties. Credit units: 3 ECTS Credit Units: 6. Aut (S. Çiraci)

PHYS 446  Condensed Matter Physics II
Dielectric properties; diamagnetism and paramagnetism; ferromagnetism and anti-ferromagnetism; magnetic resonance; electron-phonon interactions; superconductivity; optical properties. Credit units: 3 ECTS Credit Units: 6. Spr (S. Çiraci)

PHYS 449  Group Theory
Abstract group theory; theory of group representations; physical applications of group theory; full rotation groups and angular momentum; applications in molecular and solid state physics. Credit units: 3 ECTS Credit Units: 6. Spr (M. Ö. Oktel)

PHYS 453  Nuclear and Particle Physics
Introduction to subatomic particles; properties of nuclei and nucleons; spin and magnetic moments; nuclear reactions; radioactivity; alpha and beta decays; nucleon interactions and nucleon scattering at low energies; nuclear models; elementary particles. Credit units: 3 ECTS Credit Units: 6.

PHYS 457  Special Topics in Theoretical Physics
PHYS 458  Introduction to the Physics of Low-Dimensional Systems
Many-body physics in one and two dimensions, classical two-dimensional models, strategies towards exact solutions, quantum lattice models, magnetism, second quantization, symmetries in quantum physics, specifics of low-dimensional physics, exact solutions based on the Bethe ansatz, geometric phases in physics, topology in physics, polarization and conductivity, quantum Hall effect, topological insulators. Credit units: 3 ECTS Credit Units: 6.

PHYS 477  Ultrafast and Non Linear Optics
General introduction to the field of ultrafast optics and nonlinear optics. Nonlinear and dispersive pulse propagation, optical solutions, laser dynamics, mode-locking, ultrafast lasers, commonly used nonlinear optical processes. Credit units: 3 ECTS Credit Units: 6. Aut (F. İlday)

PHYS 491  Senior Project I
A project on a specific topic in an area of physics to be carried out by the student under the supervision of a faculty member. Credit units: 3 ECTS Credit Units: 6. Aut (F. İlday)

PHYS 492  Senior Project II
A project on a specific topic in an area of physics to be carried out by the student under the supervision of a faculty member. Credit units: 3 ECTS Credit Units: 6.

GRADUATE COURSES

PHYS 515  Advanced Optics
Photon and wave pictures of electromagnetic radiation. Huygen's principle, interference and interferometry, far-field and near-field diffraction, coherence, polarization, ray optics and optical resonators with ABCD matrix formalism. Selected modern topics such as fiber optics, optical communications, lasers, electro-optic modulation and nonlinear optics are discussed. Credit units: 3 ECTS Credit Units: 6.

PHYS 520  Nanoscience and Nanotechnology I

PHYS 538  Light-Matter Interactions
One- and multi-electron atoms; atoms in classical static and AC fields; diatomic molecules; molecules in external fields; quantization of electromagnetic field; mode expansion of quantized light; coupling of two-level systems with light; electromagnetically-induced transparency; coherent control of matter with light. Credit units: 3 ECTS Credit Units: 6.

PHYS 541  Electromagnetic Theory I

PHYS 542  Electromagnetic Theory II

PHYS 543  Advanced Quantum Mechanics I

PHYS 544  Advanced Quantum Mechanics II
Approximation methods, many particle systems, scattering theory, second quantization. Credit units: 3 ECTS Credit Units: 6. Spr (A. Gokalp)

PHYS 545  Solid State Theory I

PHYS 546  Solid State Theory II

PHYS 550  Physics of Semiconductor Devices

**PHYS 551** Analytical Mechanics

**PHYS 552** Statistical Mechanics
Distribution functions; the concept of entropy, the H-function; classical statistical mechanics; ensembles, partition functions. The equipartition theorem. Quantum statistical mechanics; partition function, Fermi-Dirac and Bose-Einstein distributions. Credit units: 3 ECTS Credit Units: 6. Spr (B. Hetényi)

**PHYS 553** Methods of Mathematical Physics I
Sturm-Liouville theory. Special functions: Gamma functions; Bessel functions; Legendre polynomials; integral transforms; integral equations; calculus of variations. Credit units: 3 ECTS Credit Units: 6. Aut (T. T. Hakioğlu)

**PHYS 554** Group Theory
Abstract group theory; theory of group representations; physical applications of group theory, full rotation groups and angular momentum; applications in molecular and solid state physics; permutation symmetry applications to many particle systems. Credit units: 3 ECTS Credit Units: None. Spr (M. Ö. Öktel)

**PHYS 556** Special Topics in Condensed Matter Physics I
Credit units: 3 ECTS Credit Units: 6. Aut (G. Volpe)

**PHYS 557** Special Topics in Condensed Matter Physics II
Credit units: 3 ECTS Credit Units: 6. Spr (C. Kocabas)

**PHYS 558** Special Topics in Condensed Matter Physics III
Credit units: 3 ECTS Credit Units: 6.

**PHYS 559** Special Topics in Condensed Matter Physics IV
Exactly solved models in quantum and classical physics. Two-dimensional Ising model; dual lattices, transfer matrix, monodromy matrix, star-triangle relations and the Yang-Baxter equation; ice models. The coordinate Bethe ansatz for some lattices (Heisenberg, Hubbard) and continuous models (Lieb-Liniger gas). The relation between the solution of one-dimensional quantum and two-dimensional classical models; algebraic Bethe ansatz. Introduction to numerical approaches which provide solutions to the above models including Monte Carlo methods and the density-matrix renormalization group method. Credit units: 3 ECTS Credit Units: 6.

**PHYS 560** Special Topics in Applied Physics I
Nonlinear Optics: Linear and nonlinear polarization, Maxwell’s constitutive and wave equations, harmonic and anharmonic oscillator, second harmonic generation, optical parametric oscillation, spontaneous and stimulated raman scattering, two photon absorption, coherent anti stokes raman scattering, degenerate four wave mixing, brillouin scattering, absorption. Credit units: 3 ECTS Credit Units: 6.

**PHYS 561** Special Topics in Applied Physics III

**PHYS 562** Ultrafast and Non Linear Optics
General introduction to the field of ultrafast optics and nonlinear optics. Nonlinear and dispersive pulse propagation, optical solutions, laser dynamics, mode-locking, ultrafast lasers, commonly used nonlinear optical processes. Credit units: 3 ECTS Credit Units: None. Aut (F. Ö. Ilday)

**PHYS 563** Experimental Methods in Applied Physics

**PHYS 564** Graduate Seminar I
This is a graduate (MS and PhD) seminar course. The instructor and students meet once a week for presentations and discussions. Topics of presentations are chosen by the mutual consent of the instructor and the students. Credit units: None ECTS Credit Units: None. Aut (C. Bulutay) Spr (C. Bulutay)
PHYS 592  Graduate Seminar II
This is a graduate (MS and PhD) seminar course. The instructor and students meet once a week for presentations and discussions. Topics of presentations are chosen by the mutual consent of the instructor and the students. 
Credit units: None ECTS Credit Units: None. Aut (C. Bulutay) Spr (C. Bulutay)

PHYS 599  Master's Thesis
Credit units: None ECTS Credit Units: 24. Aut (Z. A. Ercelebi) Spr (Z. A. Ercelebi)

PHYS 612  Quantum and Nonlinear Optics
Quantization of the electromagnetic field; coherent and squeezed states; atom-field interaction; coherent trapping; electromagnetically-induced transparency; quantum theory of laser; cavity quantum electrodynamics; review of nonlinear optical effects; quantum theory of nonlinear optical susceptibility; low-light-level nonlinear optics. Credit units: 3 ECTS Credit Units: 6.

PHYS 652  Advanced Statistical Mechanics
Random variables and their transformations, the langevin and fokker-planck equations, boltzmann transport equation, the h-function, and its solutions the wigner function the master equation, detailed balance. The ising model, solution to the 1-D model. The 2-D ising model-high and low temperature series, mean field theory. Introduction to phase transitions and critical phenomena-the critical exponents. The monte-carlo method, simulated annealing and molecular dynamics. The renormalization group theory and its application to the ising model. Other model systems with more complicated phase diagrams-multicriticality. Dynamic criticality-self ordered criticality. Credit units: 3 ECTS Credit Units: None.

PHYS 673  Nuclear and Particle Physics
Introduction to subatomic particles, nuclear models, elementary particles, symmetries, strong and weak interaction physics, and experimental techniques in nuclear and particle physics, accelerators. 
Credit units: 3 ECTS Credit Units: None. Spr (T. T. Hacioglu)

PHYS 699  Ph.D. Dissertation
Credit units: None ECTS Credit Units: 24. Aut (Z. A. Ercelebi) Spr (Z. A. Ercelebi)
GRADUATE PROGRAM IN MATERIALS SCIENCE AND NANOTECHNOLOGY

M. Bayındır (Acting Director).

Academic Staff

Necmi Bıyıkli, Assistant Professor, Ph.D., Electrical & Electronics Engineering, Bilkent University, 2004. Semiconductor thin films and nanostructures; II-nitride alloy growth and characterization; solar-cells; chemical and biological sensors; innovative RF-switches for wireless communications; micro and nanofabrication technology for novel electronic and optoelectronic device structures.

Aykutlu Dana, Assistant Professor, Ph.D., Electrical Engineering, Stanford University, 2003. Force microscopy and spectroscopy; micro and nano electro-opto-mechanical system and sensors; plasmon resonance based detection; novel microscopy and spectroscopy; photovoltaic materials and devices.

Engin Durgun, Assistant Professor, Ph.D., Physics, Bilkent University, 2007. Computational materials design, solar fuels, cement chemistry, surface phenomena, multiferroics, hydrogen storage, nanowires/nanostructures, magnetism/spintronics, nanotribology.


Mustafa Özgür Güler, Assistant Professor, Ph.D., Chemistry, Northwestern University, 2002. Biomimetic materials; biomaterials; self-assembly; peptides; nanomaterials; hydrogels; regenerative medicine.

Bülent Ortaç, Assistant Professor, Ph.D., Physics, Rouen University, 2004. Fiber optic concepts; CW and pulsed laser; amplification systems; nonlinear optics; ultrafast laser physics; THz generation; application of laser systems.

Ayşe Begüm Tekinay, Assistant Professor, Ph.D., Molecular Biology, Rockefeller University, 2006. Nanobiotechnology, regenerative medicine, stem cell differentiation, drug delivery, biosensors, human genetics, molecular characterization of novel genes, animal models.

Turgay Tekinay, Assistant Professor Ph.D., Anatomy & Cell Biology, Columbia University, 2005. Sustainable solutions to problems in food engineering and agriculture through nanobiotechnology, synthetic biology and molecular biology.

Tamer Uyar, Assistant Professor, Ph.D., Fiber & Polymer Science, North Caroline State University, 2005. Multi-functional nanotextile materials, polymeric nanocomposites, functional polymeric and inorganic nanofibers.

GRADUATE PROGRAMS

The graduate program in Materials Science and Nanotechnology is an interdisciplinary study and aims to develop researchers who can pursue outstanding and creative research in the diverse fields of nanoscience and nanotechnology, such as nanobiotechnology and nanomedicine; atomic scale imaging; nano and microelectronics; nanotextile; nanophotonics; femtosecond lasers; spintronics;
advanced materials design and manufacturing of nanofibers; nanotribology, hydrogen economy and solar energy, etc. The graduate program provides an in-depth understanding of materials in nanometer scale and present an excellent training starting from the quantum theory of matter and quantum statistical thermodynamics. The graduate courses to be taken by the students have to focus on his/her thesis work.

Master of Science in Materials Science and Nanotechnology

Admission: All applicants are required to have a B.S. degree in materials science and nanotechnology, or in a related field of science or engineering such as; physics, mathematics, chemistry, molecular biology and genetics, electrical and electronics, mechanical, chemical, materials science, metallurgy, food, etc. Evaluation of applicants is based on their ALES (Akademik Personel ve Lisansüstü Ejitimi Giriş Sınavı - Academic Personnel and Postgraduate Education Entrance Examination) scores, past academic records, reference letters and an interview. Applicants who are not Turkish citizens and Turkish citizen applicants who are residents of another country may take GRE instead of ALES. All non-native speakers of English are required to submit a proof of satisfactory knowledge of English.

Degree Requirements: In addition to at least 24 credit units of course work, the M.S. degree candidate must prepare and successfully defend a thesis. Expected duration to complete the M.S. program is four semesters; the maximum duration is six semesters.

Doctor of Philosophy in Materials Science and Nanotechnology

Admission: All applicants are required to have a B.S. degree in materials science and nanotechnology, or in a related field of science or engineering such as; physics, mathematics, chemistry, molecular biology and genetics, electrical and electronics, mechanical, chemical, materials science and metallurgy, food, etc. Evaluation of applicants is based on their ALES (Akademik Personel ve Lisansüstü Ejitimi Giriş Sınavı - Academic Personnel and Postgraduate Education Entrance Examination) scores, past academic records, reference letters and an interview. Applicants who are not Turkish citizens and Turkish citizen applicants who are residents of another country may take GRE instead of ALES. All non-native speakers of English are required to submit a proof of satisfactory knowledge of English.

Degree Requirements: 24 credit units of course work beyond the M.S. level or 48 credits of course work beyond the B.S. level is required. PhD candidates must pass a qualifying exam typically on their fourth semester, and then must prepare a thesis work proposal. Preparing and defending a dissertation based on original research is the essence of the program. A dissertation based on original research is the essence of the program. The expected duration to complete the Ph.D. program is eight semesters for students who enter the program after a M.S. degree, and ten semesters for those who enter after a B.S. degree. The maximum durations are 12 and 14 semesters, respectively.

COURSE DESCRIPTIONS

MSN 500 Concepts in Materials Science
Fundamental concepts in materials science will be covered. Some of these topics are plastic deformation of crystalline solids and dislocations theory, defects in solids, diffusion phenomena, interfaces and kinetics of phase transformations. Also will be covered are nucleation and growth in solids. Case study examples will be undertaken using examples from various metallic, ceramic or polymeric systems. Credit units: 3 ECTS Credit Units: 6. Aut (Staff)

MSN 501 Atomic Structure, Mechanical and Thermal Properties of Materials
Modern materials science and current trends; classification of materials; atomic structure; lattice; crystal; 1D, 2D and 3D selected crystal structures; point and space groups; reciprocal lattice and k-space; x-ray diffraction; short and long range order; noncrystalline materials; imperfections: surfaces and interfaces, dislocations, vacancies and interstitials; binding and bonding; elastic and plastic properties; dynamics of atoms; dynamical matric and
its symmetries; normal modes and phonons; Planck's distribution; thermal properties; free electron system; quantum size effect and confinement; free electron screening. Credit units: 3 ECTS Credit Units: 6. Spr (Staff)

**MSN 503 Quantum Mechanics for Materials Science I**
The physical basis of quantum mechanics; operators; Schroedinger wave equation; wave packet; statistical interpretation and expectation value; energy and momentum eigenstates and eigenvalues; Hilbert space; uncertainty principles; Heisenberg representation; Poisson's brackets; matrix formulation; symmetry; unitary transformations; square well problems; linear harmonic oscillator and ladder operators; phonons; rotational invariance and angular momentum operators; spherically symmetric potentials and hydrogen atom. Credit units: 3 ECTS Credit Units: 6.

**MSN 510 Imaging Techniques in Materials Science and Nanotechnology**
Introduction to advanced imaging techniques including Atomic Force Microscopy (AFM), Scanning Tunneling Microscopy (STM), Transmission Electron Microscopy (TEM), Scanning Electron Microscopy (SEM). Credit units: 3 ECTS Credit Units: 6. Spr (Staff)

**MSN 512 Biomedical Materials**
Types of biomedical materials and the material selection criteria. Chemical and physical properties of metals, and polymers for use in biomedical applications. Material - Biological entity interaction; biocompatibility, biodegradation. Special biomedical products, biomaterials, tissue engineering, applications and issues; heart valves, artifical bone, implants, blood vessel grafts. Credit units: 3 ECTS Credit Units: 6. Aut (Staff)

**MSN 513 Micro and Nanostructured Sensors**

**MSN 515 Nanotechnology in Agriculture and Food**
Increase in world population and dwindling agricultural land compels us to search for methods to produce agricultural and food products efficiently. nanotechnology research in food and agricultural production is a rapidly, growing field. It is anticipated that novel approaches through nanotechnology will result in crucial changes in the food industry, changing the way food is produced, processed, packaged, transported and consumed. This course will highlight current research in agriculture and food industries and anticipated applications of nanotechnology in these fields. Subjects will be precision farming, smart delivery systems, and other developments in the agricultural sector due to nanotechnology, packaging, food safety and food processing. Previous knowledge in food engineering and biology is required. Credit units: 3 ECTS Credit Units: 6.

**MSN 517 Fundamentals of Nanoscience**
Introduction to nanoscience and nanotechnology; societal implications of nanoscience; ethical, legal and environmental implications; nanotools: characterization methods; nanotools: fabrication methods; physical properties and phenomena: materials, structure, and the nanosurface; energy at the nanoscale; the material continuum: basic quantum mechanics and the solid state, quantum size effects; nanothermodynamics; synthesis and modification: carbon-based nanomaterials; chemical interactions at the nanoscale, supramolecular chemistry; chemical synthesis and modification of nanomaterials; biocatalysis: natural nanomaterials; biophysical nanoscience: DNA, RNA and protein synthesis. Credit units: 3 ECTS Credit Units: 6. Aut (Staff)

**MSN 518 Fundamentals of Nanotechnology**
Perspectives of nanotechnology: nanometrology: standard and nanomanufacturing; nanoscale electronics; nanophotonics; nanomagnetism; nanomechanics; nanostructure and nanocomposite thin films, applications of thin films; nanocalysis; nanocomposites and fibers; biological and environmental nanotechnology: biomimetics; medical nanotechnology: environmental nanotechnology. Credit units: 3 ECTS Credit Units: 6. Spr (Staff)

**MSN 521 Biotechnology**

**MSN 532 Selected Topics in Materials Science and Nanotechnology**

**MSN 534 Characterization of Polymeric Materials**
Characterization of polymeric materials, structural analysis, surface and surface analysis (nuclear magnetic resonance, RAMAN, infrared, X-ray photoelectron spectroscopy, X-ray diffraction, electron and optical microscopy), thermal analysis (thermogravimetric differential scanning calorimetry), mechanical testing (tensile, dynamic mechanical analysis, rheological), molecular weight analysis (intrinsic viscosity, gel permeation chromatography). Credit units: 3 ECTS Credit Units: 6. Aut (Staff) Spr (Staff)

**MSN 535 Textile Materials**
Fibrous materials; natural and synthetic fibers; characteristics and properties of fibers. Structure-property relationships, chemical structural analysis, physical properties, thermal properties and mechanical properties of fibers. Fiber forming processes; fiber modifications by chemical and physical methods. High performance fibers and nanofibers and their applications in functional textiles and nanotextiles. Credit units: 3 ECTS Credit Units: None.

**MSN 541 Nanobiotechnology**
Nanobiotechnology is the study of materials at nanoscale - generally with a size of 100nm or less. Nanobiotechnology is the application of nanotechnology in solution of problems of life sciences, which includes biology and medicine. The aim of this course is to help equip graduate level students from various disciplines with basic knowledge on nanotechnology and its applications. The course will cover basic imaging techniques, biosensors, targeted drug delivery methods, biofilms, etc. Credit units: 3 ECTS Credit Units: 6. Aut (Staff)

**MSN 543 Protein and Gene Engineering**
Protein and gene engineering are commonly used techniques for studying biological processes. These techniques are based on manipulation of biological materials at nanoscale. This course aims to educate graduate level students in these techniques in an advanced level concentrating on genetic techniques used for modification of proteins, single aminoacid substitutions, site-directed mutagenesis, random mutagenesis, multiple deletions, protein structure, gene engineering using knock-out technology, using bacterial chromosomes for gene engineering, etc. Credit units: 3 ECTS Credit Units: 6.

**MSN 551 Introduction to Micro and Nanofabrication**
This course intends to introduce conventional methods in macro and nanofabrication. The topics will include basics of film deposition techniques, optical and electron beam lithography, wet and dry etching methods, implantation and diffusion. Topics will be covered with detail when necessary and practical tips will be included for processes when available. There will be sections on applications of microfabrication to specialized topics such as CMOS fabrication and micro and nanoelectromechanical systems. Certain non-conventional methods of micro and nanostructure fabrication will be surveyed briefly. Credit units: 3 ECTS Credit Units: 6. Aut (Staff)

**MSN 555 Nanomaterials Processing by Intense Laser Beam**
Fundamentals of laser materials interactions, laser ablation and thin film deposition, processing with ultrashort laser pulses, creating nanostructures with lasers, laser micro and nano machining, laboratory training and hands-on experiments. Credit units: 3 ECTS Credit Units: 6. Spr (Staff)

**MSN 591 Nanotechnology and Its Impacts on Socio-Economic Structures**
This course involves lectures, which are combined with weekly workshops and a research paper that covers the whole semester. The scope of the program will be focused on implications of nanotechnology on socio-economic structures. It concentrates on investigating possible future scenarios, nanotechnology world economic trends, investments of various countries, nanotechnology, industry, business interactions, ethics, legal aspects, patent and intellectual property. National nanotechnology initiatives, world dynamics and decision systems, impacts on human life and society are also presented. Credit units: 3 ECTS Credit Units: 6.

**MSN 596 Seminar I**
Credit units: None ECTS Credit Units: None. Aut (Ç. Elbüken) Spr (Ç. Elbüken)

**MSN 599 Master's Thesis**
Credit units: None ECTS Credit Units: 24. Aut (M. Bayındır) Spr (M. Bayındır)

**MSN 698 Seminar II**
Credit units: None ECTS Credit Units: None. Aut (Ç. Elbüken) Spr (Ç. Elbüken)

**MSN 699 Ph.D. Thesis**
Credit units: None ECTS Credit Units: 24. Aut (M. Bayındır) Spr (M. Bayındır)
SCHOOL OF APPLIED LANGUAGES

Tanju İnal, Ph.D., Director

The School of Applied Languages - the first of its kind in Turkey, offers four year degree programs in Banking and Finance, and Accounting. The Banking and Finance, and Accounting degree programs offer the opportunity to study a combination of two languages (English and French) and financial studies. The aim is to give a firm background in financial markets and organizations and to develop advanced communication skills in English and French, which are appropriate for business, banking and accounting.

ACADEMIC STAFF

Nazmi Demir, Assistant Professor

Ebru Güven Solakoğlu, Assistant Professor

Orhan Güvenen, Professor

Mümtaz Kaya, Assistant Professor
Ph.D., French Language and Literature, Hacettepe University, 1998.

Erin Maloney, Instructor

Valery C. E. Paternotte, Instructor
Ph.D., Environmental Management, Universite Libre de Bruxelles, 2002.

Elizabeth Saatçı, Instructor

Selda Sevin, Instructor
M.A., Management, Hacettepe University, 1999.

Mehmet Nihat Solakoğlu, Assistant Professor

PART-TIME ACADEMIC STAFF

Onur Aytar, M.S., Computer Science, Northeastern University, Boston, M.A. USA, 2003.
Şenol Babuşcu, Ph.D., Management, Hacettepe University, 1997.
Ömer Berki, B.A., Faculty of Law, Ankara University, 1972.
Adalet Hazar, Ph.D., Finance and Accounting, Gazi University, 2004.
Vedat Özer, B.A., Department of Banking and Insurance, Gazi University, 1983.
Can Öztürk, Ph.D., Accounting and Finance, Başkent University, 2011.
Sedat Yetim, Ph.D., Economics, Hacettepe University, 2000.
ACCOUNTING INFORMATION SYSTEMS

O. Güvenen (Chair), M. Kaya, S. Sevin.

UNDERGRADUATE PROGRAM

This program blends topics from accounting, international auditing and information systems to develop the knowledge, skills and abilities needed in the accounting profession. The program also seeks to develop advanced communication skills in English and French, which are appropriate for accounting and business. The first year is a foundation course in accounting, application of information technology and languages. Starting in the second year, courses begin to focus more explicitly on the application and integration of information technology into the accounting process while financial and managerial accounting principles are introduced and developed. Communication skills in English and French are further developed with a greater emphasis on business and finance related work in language study.

Accounting Information System Component

The Accounting Information System component of the program provides an understanding of computer and information technology concepts and places strong emphasis on acquiring subject-specific knowledge in international auditing, accounting, finance, and the business environment. Furthermore, the program incorporates a one-month training period in the third and fourth year of study during which students work for firms or within an accounting department of a business.

Language Component

The language courses develop general oral and written language skills as well as more specialized skills such as report writing, negotiating, interpersonal communication, analyzing and synthesizing within the wider context of business. In language work most of the practical sessions may be function-based and devoted to a given skill (oral work, writing proposals) whereas others are topic based and focus more on Business Communications involving case studies that culminate in oral presentations and business reports. Communication skills in both English and French are developed through the use of real-life cases and involve students in team-based projects.

CURRICULUM

FIRST YEAR

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
<th>ECTS Credits</th>
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<tr>
<td><strong>Autumn Semester</strong></td>
<td></td>
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<tr>
<td>ACC 173</td>
<td>Computer Applications I</td>
<td>3 / 6</td>
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<td>ACC 175</td>
<td>Mathematics I</td>
<td>3 / 6</td>
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<tr>
<td>BF 161</td>
<td>Economics I</td>
<td>3 / 6</td>
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<td>ENG 101</td>
<td>English and Composition I</td>
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<tr>
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<td>TURK 101</td>
<td>Turkish I</td>
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<tr>
<td>ACC 170</td>
<td>Computer Applications II</td>
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<tr>
<td>ACC 178</td>
<td>Mathematics II</td>
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<td>BF 162</td>
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<tr>
<td>ENG 102</td>
<td>English and Composition II</td>
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<td>SFL 102</td>
<td>French II</td>
<td>3 / 6</td>
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<td>TURK 102</td>
<td>Turkish II</td>
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<td><strong>Summer Semester</strong></td>
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<tr>
<td>SFL 103</td>
<td>French III</td>
<td>3 / 6</td>
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### SECOND YEAR

#### Autumn Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>ACC 253</td>
<td>Accounting I</td>
<td>3 / 6</td>
</tr>
<tr>
<td>ACC 271</td>
<td>Data Structures and Object Oriented Programming I</td>
<td>3 / 6</td>
</tr>
<tr>
<td>BF 271</td>
<td>Applications in Probability and Statistics I</td>
<td>3 / 6</td>
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<tr>
<td>GE 250</td>
<td>College Activities Program I</td>
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<tr>
<td>HIST 200</td>
<td>History of Turkey</td>
<td>4 / -</td>
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<tr>
<td>SFL 201</td>
<td>French IV</td>
<td>3 / 6</td>
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<tr>
<td>SFL 207</td>
<td>Interpersonal Communication in Business Settings</td>
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#### Spring Semester

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<tr>
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<th>Credits / ECTS Credits</th>
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<tbody>
<tr>
<td>ACC 258</td>
<td>Accounting II</td>
<td>3 / 6</td>
</tr>
<tr>
<td>ACC 272</td>
<td>Data Structures and Object Oriented Programming II</td>
<td>3 / 6</td>
</tr>
<tr>
<td>BF 276</td>
<td>Applications in Probability and Statistics II</td>
<td>3 / 6</td>
</tr>
<tr>
<td>GE 251</td>
<td>College Activities Program II</td>
<td>1 / 2</td>
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<tr>
<td>SFL 202</td>
<td>French V</td>
<td>3 / 6</td>
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<tr>
<td>SFL 208</td>
<td>Written Business Communication</td>
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### THIRD YEAR

#### Autumn Semester

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<th>Course Title</th>
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<tr>
<td>ACC 391</td>
<td>Summer Practice</td>
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<tr>
<td>BF 383</td>
<td>Ethics, Responsibility and Citizenship</td>
<td>3 / 6</td>
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<tr>
<td>LAW 313</td>
<td>Business Law</td>
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<tr>
<td>SFL 307</td>
<td>English in Business Communication</td>
<td>3 / 6</td>
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<tr>
<td>SFL 335</td>
<td>French in Financial Communication I</td>
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<td>ACC 253</td>
<td>Restricted Elective</td>
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#### Spring Semester

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<tbody>
<tr>
<td>ACC 360</td>
<td>Cost Accounting and Computerized Accounting Applications</td>
<td>3 / 6</td>
</tr>
<tr>
<td>ACC 374</td>
<td>Information Systems Security and Information Distortion (in French)</td>
<td>3 / 6</td>
</tr>
<tr>
<td>LAW 416</td>
<td>Introduction to Contract Law</td>
<td>3 / 6</td>
</tr>
<tr>
<td>SFL 308</td>
<td>English in Organizational Communication</td>
<td>3 / 6</td>
</tr>
<tr>
<td>SFL 336</td>
<td>French in Financial Communication II</td>
<td>3 / 6</td>
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<tr>
<td>SFL 490*</td>
<td>Common European Framework of Reference Level B1</td>
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### FOURTH YEAR

#### Autumn Semester

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<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>ACC 425</td>
<td>Commercial Law</td>
<td>3 / 6</td>
</tr>
<tr>
<td>ACC 463</td>
<td>International Financial Reporting Standards (IFRS)</td>
<td>3 / 6</td>
</tr>
<tr>
<td>ACC 473</td>
<td>Management Information Systems (in French)</td>
<td>3 / 6</td>
</tr>
<tr>
<td>ACC 491</td>
<td>Summer Practice</td>
<td>- / -</td>
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<tr>
<td>SFL 405</td>
<td>Intercultural Business Communication</td>
<td>3 / 6</td>
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<tr>
<td>SFL 431</td>
<td>French in Corporate Communication</td>
<td>3 / 6</td>
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</table>

#### Spring Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits / ECTS Credits</th>
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</thead>
<tbody>
<tr>
<td>ACC 454</td>
<td>International Auditing</td>
<td>3 / 6</td>
</tr>
<tr>
<td>ACC 464</td>
<td>Taxation and Turkish Tax Law</td>
<td>3 / 6</td>
</tr>
<tr>
<td>ACC 476</td>
<td>Graduation Project in Accounting Information Systems and Auditing</td>
<td>3 / 6</td>
</tr>
<tr>
<td>SFL 406</td>
<td>Integrated Marketing Communications (IMC)</td>
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<tr>
<td>SFL 432</td>
<td>Organizational Communication in French</td>
<td>3 / 6</td>
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### ELECTIVES

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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits / ECTS Credits</th>
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</thead>
<tbody>
<tr>
<td>HART 111</td>
<td>Introduction to Archaeology</td>
<td>3 / 4</td>
</tr>
<tr>
<td>HART 117</td>
<td>Ways of Seeing: Approaches to Art and Architectural History</td>
<td>3 / 4</td>
</tr>
<tr>
<td>HART 221</td>
<td>Great Discoveries from the Ancient World</td>
<td>3 / 6</td>
</tr>
<tr>
<td>HART 225</td>
<td>Cultural Anthropology</td>
<td>3 / 6</td>
</tr>
<tr>
<td>HUM 111</td>
<td>Cultures Civilizations and Ideas I</td>
<td>3 / 4</td>
</tr>
<tr>
<td>HUM 112</td>
<td>Cultures Civilizations and Ideas II</td>
<td>3 / 4</td>
</tr>
<tr>
<td>HUM 291</td>
<td>Selected Topics in the Humanities</td>
<td>3 / 6</td>
</tr>
</tbody>
</table>
HUM 293 Selected Topics in Humanities .................................................. 3 / 4
HUM 335 Intercultural Relations: Issues and Debates .................................. 3 / 4

One elective course should be taken from the elective courses list offered by the Faculty of Humanities and Letters departments.

**COURSE DESCRIPTIONS**

**ACC 170 Computer Applications II**
Students use spreadsheets, including financial, database, and optimization functions of Excel, to analyze and solve business problems. Subjects like generation of graphs, and advanced document formatting are covered as well. **Credit units: 3 ECTS Credit Units: 6, Prerequisite: ACC 173. Spr (E. Maloney)**

**ACC 173 Computer Applications I**
Beginning usage of operating system software (Windows and Linux) and application of software (word processing, spreadsheet, presentation, the basics of internet and web page building). **Credit units: 3 ECTS Credit Units: 6. Aut (E. Maloney)**

**ACC 175 Mathematics I**
Review of algebra, applications of calculus, equations, logarithms to financial data, functions and graphs, applications of functions in business and economics, mathematics of finance. Interest rates, compounding, annuities, present and future values, amortization of mortgage loans and sinking funds for bonds. **Credit units: 3 ECTS Credit Units: 6. Aut (E. Güven Solakoğlu)**

**ACC 178 Mathematics II**
Introduction to matrix and vector equations, limits and continuity. Application of derivatives, integrals to financial and banking data. Multivariate calculus. Maximizing profit and utility and minimizing cost. **Credit units: 3 ECTS Credit Units: 6. Prerequisite: ACC 175. Spr (E. Güven Solakoğlu)**

**ACC 253 Accounting I**
An introductory accounting course which covers the concepts and issues of financial accounting such as general accounting principles, the accounting cycle which starts with the analysis and recording of economic events and ends with the preparation of balance sheets and income statements for service and merchandize firms. Development of accounting principles and procedures related to assets, liabilities and owner's equity. **Credit units: 3 ECTS Credit Units: 6. Aut (S. Sevin)**

**ACC 258 Accounting II**
Introduction to management accounting for internal reporting and decision making. Topics include cost volume profit analysis, cost behavior, activity based costing, process and job order costing, budgeting and budget variance analysis, pricing, responsibility accounting and performance evaluation. **Credit units: 3 ECTS Credit Units: 6, Prerequisite: ACC 253. Spr (S. Sevin)**

**ACC 271 Data Structures and Object Oriented Programming I**
Fundamental programming in a high level language and introduction to programming principals. Topics include program structure and organization, object-oriented programming (classes, objects, types), data structures (lists, stacks, queues, hash tables), basic user interfaces. Java is the principal programming language. **Credit units: 3 ECTS Credit Units: 6. Aut (N. Fenmen)**

**ACC 272 Data Structures and Object Oriented Programming II**
Introduction to systems development providing a foundation for systems implementation cycle, systems analysis and object oriented program design techniques and project management. **Credit units: 3 ECTS Credit Units: 6, Prerequisite: ACC 271. Spr (O. Aytar)**

**ACC 360 Cost Accounting and Computerized Accounting Applications**
Advanced topics in financial and managerial accounting, with special emphasis on accounting practices applicable in Turkey. The uniform accounting plan, inventory accounts, preparation and reporting of financial statements (balance sheet, income statement, cash flow statement, and statement of shareholders' equity) and in-depth study on cost accounting. Special emphasis will be given to adjusting and closing entries with popular accounting software packages (Likom, Logo, SAP). **Credit units: 3 ECTS Credit Units: 6, Prerequisite: ACC 258. Spr (S. Sevin)**

**ACC 374 Information Systems Security and Information Distortion (in French)**
Information Systems privacy and security in the context of software, hardware, networks and databases. The very important impact of information systems security and information distortion to research, socio-economic systems with specific reference to accounting information systems, banking and finance and decision making systems. **Credit units: 3 ECTS Credit Units: 6. Spr (O. Güvenen)**
ACC 391 Summer Practice
One-month training period. (see www.bilkent.edu.tr/~sal) Credit units: None ECTS Credit Units: None. Aut (Staff)

ACC 425 Commercial Law
This course offers an introductory study of law of commercial enterprises, partnerships and corporations, negotiable instruments law and insurance law. Credit units: 3 ECTS Credit Units: 6. Aut (O. Berki)

ACC 445 International Auditing
The primary objective of the course is to distinguish between accounting and auditing through familiarizing the students with the basic auditing concepts. Topics such as types of audits and auditors, audit reports for financial statements, professional ethics, evidence accumulation and verification procedures, internal control and auditing engagements are discussed. Credit units: 3 ECTS Credit Units: 6. Prerequisite: ACC 463. Spr (C. Öztürk)

ACC 463 International Financial Reporting Standards (IFRS)
This course is an introductory course on international financial reporting. It focuses on the main aspects of international account and financial reporting standards by comparing with Turkish Accounting System. Topics covered include preparation of financial statements, inventory, cash flow statements, accounting policies plant, property and equipment, revenue, investment property, intangible assets, operating segments, impairment of assets, provisions, contingent liabilities and assets, foreign exchange rates, inflation and some financial instruments. Credit units: 3 ECTS Credit Units: 6. Prerequisite: ACC 253 and ACC 258. Aut (C. Öztürk)

ACC 464 Taxation and Turkish Tax Law
This course comprises the principles of tax law, taxation process, income tax, corporation tax, value added tax, real estate tax, inheritance tax, tax penalties, conflicts of taxation and some other taxes in the Turkish system. Credit units: 3 ECTS Credit Units: 6. Spr (A. Başpinar)

ACC 473 Management Information Systems (in French)
Management and information technologies and communications (ITC), knowledge-based economy and knowledge society, business plan and business model, business models for electronic markets, electronic commerce, systems development and documentation techniques, data bases, impact of ITC on public and corporate governance, information and decision-making. Credit units: 3 ECTS Credit Units: 6. Aut (O. Güvenen)

ACC 476 Graduation Project in Accounting Information Systems and Auditing
This project is designed to expose students to real life situations involving Accounting Information Systems and Auditing. The students will put into practice the knowledge and Skills acquired from their previous courses by creating an accounting information system and auditing project. This will be done by establishing a virtual company through which students will identify business processes and transactions, gather data elements to create the accounting information system and apply to these two components, internal controls in terms of user rights and security policies. Students will be guided throughout the project and will follow a combination of classes, workshops and seminars given by professionals. To complete this course, students will prepare and present a written project which will be based on assessing the risks of the created accounting information system and auditing. Credit units: 3 ECTS Credit Units: 6. Prerequisite: ACC 258 and ACC 360. Spr (O. Aytar)

ACC 491 Summer Practice
One-month training period. (see www.bilkent.edu.tr/~sal) Credit units: None ECTS Credit Units: None. Aut (Staff)
BANKING AND FINANCE

N. Demir (Chair), E. Güven Solakoğlu, E. Maloney, V. C. E. Paternotte, E. Saatçi, M. N. Solakoğlu.


UNDERGRADUATE PROGRAM

This program is designed to provide a solid understanding of banking and financial studies and to develop advanced communication skills in English and French which are necessary for banking and finance. The first year is a foundation course in both banking/finance and languages. Starting in the second year, courses become more specialized, allowing in-depth study of banking and finance topics with a focus on real-world applications.

Banking/Finance Component

The banking and finance component of the program is carried out in English and French as a second foreign language. It seeks to develop competence in financial markets and organizations. This is complemented by the use of computer assisted applications related to banking and finance. Additionally, two one-month training periods are incorporated into the summer programs which aims to familiarize students with the working environment in financial institutions and other business organizations.

Language Component

The language courses develop general oral and written language skills as well as more specialized skills such as translating, report writing, negotiating, analyzing and synthesizing within the wider context of business. In the language work most of the practical sessions may be function-based and devoted to a given skill (oral work, translation into Turkish). Other language work is topic-based and focuses more on business communications involving case studies that culminate in oral presentations and business reports.

CURRICULUM

FIRST YEAR

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<thead>
<tr>
<th>Autumn Semester</th>
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<tbody>
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<tr>
<td>SFL 101</td>
<td>French I</td>
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<tr>
<td>TURK 101</td>
<td>Turkish I</td>
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<tr>
<th>Spring Semester</th>
<th>Credits / ECTS Credits</th>
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<tbody>
<tr>
<td>ACC 178</td>
<td>Mathematics II</td>
</tr>
<tr>
<td>BF 162</td>
<td>Economics II</td>
</tr>
<tr>
<td>BF 174</td>
<td>Computer Applications II</td>
</tr>
<tr>
<td>ENG 104</td>
<td>English and Composition II</td>
</tr>
<tr>
<td>SFL 102</td>
<td>French II</td>
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<td>TURK 102</td>
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<tbody>
<tr>
<td>SFL 103</td>
<td>French III</td>
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SECOND YEAR

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<thead>
<tr>
<th>Autumn Semester</th>
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<tbody>
<tr>
<td>ACC 253</td>
<td>Accounting I</td>
</tr>
<tr>
<td>BF 271</td>
<td>Applications in Probability and Statistics I</td>
</tr>
</tbody>
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<tr>
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<th>Credits / ECTS Credits</th>
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<th>Summer Semester</th>
<th>Credits / ECTS Credits</th>
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<tr>
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<th>Course Title</th>
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<tbody>
<tr>
<td>GE 250</td>
<td>Collegiate Activities Program I</td>
<td>3 / 6</td>
</tr>
<tr>
<td>HIST 200</td>
<td>History of Turkey</td>
<td>4 / -</td>
</tr>
<tr>
<td>SFL 201</td>
<td>French IV</td>
<td>3 / 6</td>
</tr>
<tr>
<td>SFL 207</td>
<td>Interpersonal Communication in Business Settings</td>
<td>3 / 6</td>
</tr>
<tr>
<td></td>
<td>Restricted Elective</td>
<td>3 / 6</td>
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**Spring Semester Credits / ECTS Credits**

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<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits / ECTS Credits</th>
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<tbody>
<tr>
<td>ACC 258</td>
<td>Accounting II</td>
<td>3 / 6</td>
</tr>
<tr>
<td>BF 264</td>
<td>Elements of Money and Banking I</td>
<td>3 / 6</td>
</tr>
<tr>
<td>BF 276</td>
<td>Applications in Probability and Statistics II</td>
<td>3 / 6</td>
</tr>
<tr>
<td>GE 251</td>
<td>Collegiate Activities Program II</td>
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<tr>
<td>SFL 202</td>
<td>French V</td>
<td>3 / 6</td>
</tr>
<tr>
<td>SFL 208</td>
<td>Written Business Communication</td>
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**Autumn Semester Credits / ECTS Credits**

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<tbody>
<tr>
<td>ACC 425</td>
<td>Commercial Law</td>
<td>3 / 6</td>
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<tr>
<td>BF 365</td>
<td>Elements of Money and Banking II</td>
<td>3 / 6</td>
</tr>
<tr>
<td>BF 383</td>
<td>Ethics, Responsibility and Citizenship</td>
<td>3 / 6</td>
</tr>
<tr>
<td>BF 391</td>
<td>Summer Practice</td>
<td>- / -</td>
</tr>
<tr>
<td>SFL 307</td>
<td>English in Business Communication</td>
<td>3 / 6</td>
</tr>
<tr>
<td>SFL 335</td>
<td>French in Financial Communication I</td>
<td>3 / 6</td>
</tr>
<tr>
<td>SFL 490+</td>
<td>Common European Framework of Reference Level B1</td>
<td>- / -</td>
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**Spring Semester Credits / ECTS Credits**

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<tbody>
<tr>
<td>BF 362</td>
<td>Banking Operations</td>
<td>3 / 6</td>
</tr>
<tr>
<td>BF 372</td>
<td>Computerized Financial Applications</td>
<td>3 / 6</td>
</tr>
<tr>
<td>BF 384</td>
<td>Introduction to Financial Econometrics</td>
<td>3 / 6</td>
</tr>
<tr>
<td>SFL 308</td>
<td>English in Organizational Communication</td>
<td>3 / 6</td>
</tr>
<tr>
<td>SFL 336</td>
<td>French in Financial Communication II</td>
<td>3 / 6</td>
</tr>
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**Autumn Semester Credits / ECTS Credits**

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<tbody>
<tr>
<td>BF 469</td>
<td>Banking Law</td>
<td>3 / 6</td>
</tr>
<tr>
<td>BF 473</td>
<td>Computerized Brokerage and Dealer Operations</td>
<td>3 / 6</td>
</tr>
<tr>
<td>BF 491</td>
<td>Summer Practice</td>
<td>- / -</td>
</tr>
<tr>
<td>SFL 405</td>
<td>Intercultural Business Communication</td>
<td>3 / 6</td>
</tr>
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<td>SFL 431</td>
<td>French in Corporate Communication</td>
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<td></td>
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<tbody>
<tr>
<td>BF 422</td>
<td>Graduation Project in Banking and Finance</td>
<td>3 / 6</td>
</tr>
<tr>
<td>BF 488</td>
<td>Computerized Insurance Services and Operations</td>
<td>3 / 6</td>
</tr>
<tr>
<td>LAW 416</td>
<td>Introduction to Contract Law</td>
<td>3 / 6</td>
</tr>
<tr>
<td>SFL 406</td>
<td>Integrated Marketing Communications (IMC)</td>
<td>3 / 6</td>
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<tr>
<td>SFL 432</td>
<td>Organizational Communication in French</td>
<td>3 / 6</td>
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**ELECTIVES**

<table>
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<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>BF 461</td>
<td>Corporate Finance</td>
<td>3 / 6</td>
</tr>
<tr>
<td>BF 462</td>
<td>Investments</td>
<td>3 / 6</td>
</tr>
<tr>
<td>BF 464</td>
<td>International Finance</td>
<td>3 / 6</td>
</tr>
<tr>
<td>BF 467</td>
<td>Research in Finance</td>
<td>3 / 6</td>
</tr>
<tr>
<td>BF 479</td>
<td>Issues in Banking</td>
<td>3 / 6</td>
</tr>
<tr>
<td>BF 480</td>
<td>Applied Capital Markets</td>
<td>3 / 6</td>
</tr>
<tr>
<td>BF 485</td>
<td>Introduction to Bank Risk Analysis and Evaluation</td>
<td>3 / 6</td>
</tr>
<tr>
<td>COMD 207</td>
<td>Film History</td>
<td>3 / 6</td>
</tr>
<tr>
<td>FA 271</td>
<td>History of Art I</td>
<td>3 / 5</td>
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<tr>
<td>FA 272</td>
<td>History of Art II</td>
<td>3 / 5</td>
</tr>
<tr>
<td>HART 111</td>
<td>Introduction to Archaeology</td>
<td>3 / 4</td>
</tr>
<tr>
<td>HART 117</td>
<td>Ways of Seeing: Approaches to Art and Architectural History</td>
<td>3 / 4</td>
</tr>
<tr>
<td>HART 221</td>
<td>Great Discoveries from the Ancient World</td>
<td>3 / 6</td>
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At least two elective courses should be taken from the elective courses list offered by BF (Banking/Finance), and MAN (Management) departments, and the Faculty of Humanities and Letters departments.

**COURSE DESCRIPTIONS**

**BF 161 Economics I**
Supply and demand analysis, the pricing system, theory of consumer behavior, theory of production, market structures; perfect competition, monopoly, other forms of imperfect competition, distribution of income; factor mobility, factor pricing. **Credit units: 3 ECTS Credit Units: 6. Aut (N. Demir)**

**BF 162 Economics II**

**BF 173 Computer Applications I**
Learning the computer skills necessary for general academia, including efficient usage of 1) the Turkish QWERTY keyboard; 2) operating system software; and 3) application software (wordprocessing, internet, presentation, compression and photo editing). **Credit units: 3 ECTS Credit Units: 6. Aut (E. Maloney)**

**BF 174 Computer Applications II**
Learning the computer skills necessary for a degree in Banking and Finance, including advanced spreadsheeting (functions, formulas, data analysis, objects and symbols, amortization, matrices, and charts), and software integration. **Credit units: 3 ECTS Credit Units: 6, Prerequisite: BF 173. Spr (E. Maloney)**

**BF 264 Elements of Money and Banking I**
Introduction to monetary and financial institutions, central banks and monetary policy, the transmission mechanism of money, money supply process, inflation and inflation targeting, money supply and demand as related to aggregate real supply and demand for goods and services, Keynesians versus Monetarists, Monetary policy versus government budget, PSBR, budget versus inflation, monetary and fiscal policy effects under fixed versus floating exchange rate policy, putting all together: the IS-LM-FE model. **Credit units: 3 ECTS Credit Units: 6, Prerequisite: BF 162. Spr (N. Demir)**

**BF 271 Applications in Probability and Statistics I**
Introduction to probability, the central limit theorem, data collection, descriptive statistics of central tendency and dispersion, the normal distribution, summarizing and interpreting financial data, histograms, examining relationships between economic and financial variables using graphical techniques, simple correlation, sampling and point and interval estimates of parameters. **Credit units: 3 ECTS Credit Units: 6. Aut (M. N. Solakoğlu)**

**BF 276 Applications in Probability and Statistics II**
Parametric and non-parametric tests of hypothesis, ANOVA, simple and multiple regressions based on excel and other statistical package programs, index numbers, time series and panel data all applied to financial and banking data. **Credit units: 3 ECTS Credit Units: 6, Prerequisite: BF 271. Spr (E. Güven Solakoğlu, M. N. Solakoğlu)**

**BF 362 Banking Operations**
Canons of lending, personal borrowers, other borrowers, general principles of security, review and control of accounts. Interpretation of financial statements, Interbank Nostro and Vostro accounts, remittance and receipt of funds, rates of exchange, financing international trade for exporters and importers. **Credit units: 3 ECTS Credit Units: 6, Prerequisite: BF 252. (Prerequisite not required when offered as elective to other departments). Spr (S. Babuşcu)**
BF 365  Elements of Money and Banking II
Overview financial markets and institutions, financial sector versus real economy, rates of returns: HPR, APR, EAR, risk and term structure of interest rate, bond market, pricing bonds, duration and bond price elasticity; stock market, stock market indices, pricing stocks, diversifying assets, the CAPM, the APT, the beta; portfolio with the CAL and the SML; performance analysis based on Sharp, Treynor and Jensen's alpha. Credit units: 3 ECTS Credit Units: 6, Prerequisite: BF 264. Aut (N. Demir)

BF 372  Computerized Financial Applications
This course aims to develop skills of empirical work by applying financial theories to real life problems with computers. It covers tools of financial statement analysis, forecasting, risk measurement in finance, technical analysis of stock markets, Markowitz portfolio design, the Capital Asset Pricing Model (CAPM) and performance assessment of portfolios. Credit units: 3 ECTS Credit Units: 6, Prerequisite: BF 271 and BF 276 and BF 365. Spr (N. Demir)

BF 383  Ethics, Responsibility and Citizenship
The aim of this course is to introduce ethical issues in relation to business and corporations. Emphasis will be given to the notion of corporate citizenship and its contribution to the framing of business ethics and to concepts of corporate social responsibility (CSR). Credit units: 3 ECTS Credit Units: 6. Aut (S. Sevin)

BF 384  Introduction to Financial Econometrics
Introductory level econometrics course designed to analyse financial time series and panel data with emphasis on model building and estimating parameters with the use of least squares techniques and maximum likelihood theories, testing stationarity, cointegration and volatility hypotheses for univariate and multivariate time series models. Credit units: 3 ECTS Credit Units: 6, Prerequisite: BF 271 and BF 276 and BF 365. Spr (M. N. Solakoğlu)

BF 391  Summer Practice
One-month training period. (see www.bilkent.edu.tr/~sal) Credit units: None ECTS Credit Units: None. Aut (Staff)

BF 422  Graduation Project in Banking and Finance
This course is designed for students to apply undergraduate class work to real life situations. In the first part, students will be exposed to a number of carefully selected topics through classes, workshops and seminars. In the second part, the course will have three components: research, a written project, and a project presentation. This course will create a model of real life work, including planning, reading, analyzing, doing research, writing, interpreting, and presenting findings. Credit units: 3 ECTS Credit Units: 6, Prerequisite: BF 372 and BF 394. Aut (E. Güven Solakoğlu) Spr (N. Demir, E. Güven Solakoğlu, M. N. Solakoğlu)

BF 461  Corporate Finance
The functions of financial markets and institutions, financial tables, ratio analysis, time value of money, valuation of stocks and bonds, investment and financing decisions, risk and return, derivatives, financial planning. Credit units: 3 ECTS Credit Units: 6, Prerequisite: BF 252 and BF 365. (Prerequisite not required when offered as elective to other departments). Aut (M. N. Solakoğlu)

BF 464  International Finance
The international financial environment, the international monetary system, balance of payments and parity conditions, spot and forward markets, foreign exchange risk management, forecasting FX rates, economic exposure, transactions exposure, translation exposure, international financial markets, international portfolio diversification, trade financing, direct foreign investment decisions, strategy, political risk, capital budgeting. Credit units: 3 ECTS Credit Units: 6.

BF 467  Research in Finance
This course aims to build research skills in finance and banking. Identification of the related literature and analysis will be covered. Focus will be on building an econometric model to analyse the research objective. Credit units: 3 ECTS Credit Units: 6.

BF 469  Banking Law
Sources of law: relevance to the business of banking, conflict resolving, judicial and quasi-judicial processes, court system, quasi-judicial bodies, bank ombudsman, contract law: role of contract law in banking, nature and elements of a contract, banker/customer contract. Property and its use as security; real and personal property, security functions and types. A bank's rights and duties as a mortgagee. Credit units: 3 ECTS Credit Units: 6, Prerequisite: BF 362. Aut (Ş. Babuşçu)

BF 473  Computerized Brokerage and Dealer Operations
Computerized Brokerage and Dealer Operations Applications with special emphasis on stocks, foreign exchange (FX) and commodity markets. Credit units: 3 ECTS Credit Units: 6, Prerequisite: BF 365 and BF 384. Aut (N. Elliahtoğlu)
BF 480  Applied Capital Markets
Structure of capital markets: stocks, bonds, mortgages etc. and capital market institutions such as capital markets board, stock exchange markets, legal and institutional requirements of the equity markets. Credit units: 3 ECTS Credit Units: 6. Aut (A. Hazar) Spr (A. Hazar)

BF 485  Introduction to Bank Risk Analysis and Evaluation
This course covers the Basel 1-2 (The New Accord) topics with particular emphasis on the three pillars of Basel 2: Minimum capital requirements, supervisory review of capital adequacy and public disclosure for market discipline. Topics such as external rating, internal rating, different approaches to the measurement of credit risk and operational risk, steps for the adaptation of the new accord in Turkey are also covered. Credit units: 3 ECTS Credit Units: 6. Aut (S. Yetim)

BF 488  Computerized Insurance Services and Operations
The insurance sector and its public and private institutions; principles, basics and legal aspects of insurance services and operations in Turkey and abroad; Insurance operations in practice; Computerized insurance services, use of special software currently used for insurance services and operations. Credit units: 3 ECTS Credit Units: 6. Prerequisite: BF 252 and BF 271. Spr (V. Özer)

BF 491  Summer Practice
One-month training period. (see www.bilkent.edu.tr/~sal) Credit units: None ECTS Credit Units: None. Aut (Staff)

SFL 101  French I
The aim of this course is to develop basic communication skills in French for social and professional use. Students will be exposed to basic communication situations related to everyday communication through which they will learn the basic structures of French grammar and acquire essential notions of French culture. Credit units: 3 ECTS Credit Units: 6. Aut (M. A. Erkoc, A. Karanfilli, Y. Tanbi)

SFL 102  French II
This course expands on the skills acquired in SFL 101 and emphasizes language skills needed to describe and carry out typical tasks in the workplace. Special attention will be given to terminology and pronunciation. Credit units: 3 ECTS Credit Units: 6. Prerequisite: SFL 101. Spr (M. A. Erkoc, M. Özatac, Y. Tanbi)

SFL 103  French III
This course emphasizes language skills needed to interact socially in a professional environment and aims to further develop language awareness and accuracy in language use by engaging students with texts, both written and audio, from different contexts. Students will learn how to describe a company, follow instructions, write effectively and develop the ability to present information related to work settings cohesively and coherently both orally and in writing and to express ideas and opinions effectively. Credit units: 3 ECTS Credit Units: 6. Prerequisite: SFL 102.

SFL 201  French IV
This course aims at developing the ability to listen and read complex texts for gist and detail and to apply this knowledge and understanding to speaking and writing. Emphasis will be given to texts related to banking, finance and accounting and case studies will focus on customer relationships and banking services. Credit units: 3 ECTS Credit Units: 6. Prerequisite: SFL 103. Aut (A. Demir)

SFL 202  French V
This course builds on the skills acquired in SFL 201. Besides professional skills and specific terminology concerning investment opportunities and types of credit, students will also deal with the intercultural aspect of business. Credit units: 3 ECTS Credit Units: 6. Prerequisite: SFL 201. Spr (A. Demir)

SFL 203  Introduction to French for Professional Use
(Offered to students following the Accelerated French track) This course aims at developing the ability to communicate effectively in French in a business context. Emphasis is placed on developing reading, writing, listening and speaking through realistic business cases and will include extended projects. Credit units: 6 ECTS Credit Units: 12. Prerequisite: SFL 103.

SFL 207  Interpersonal Communication in Business Settings
Theories and practice in verbal and nonverbal communication with a focus on interpersonal relationships. Emphasis on improving interpersonal skills and helping students increase their communication competence in business-related exchanges. Credit units: 3 ECTS Credit Units: 6. Aut (B. Blackwell Gülen)

SFL 208  Written Business Communication
Develops understanding of communication theories and builds skills in written communication emphasizing style and audience awareness. Practical applications center on external and internal business correspondence. Letters, memos that inform persuade, grant and refuse are stressed. Credit units: 3 ECTS Credit Units: 6. Spr (B. Blackwell Gülen)
SFL 307  English in Business Communication
This course aims to develop communicative competency in writing short reports, conducting meetings and delivering presentations through assignments designed to meet real organizational needs. Credit units: 3 ECTS Credit Units: 6. Prerequisite: SFL 208. Aut (E. Saatçi)

SFL 308  English in Organizational Communication
Covering a range of communication issues and practices within businesses and other organizations, emphasis is placed on effective communication through oral and written reporting, proposals, negotiations and team presentation. Credit units: 3 ECTS Credit Units: 6. Prerequisite: SFL 307. Aut (Staff) Spr (B. Blackwell Gülen)

SFL 335  French in Financial Communication I
This course aims to improve students’ ability to communicate effectively in a wide-range of accounting and financial contexts. Realistic case studies related to finance, banking operations, investments and economics will be used to develop language skills. Emphasis will be given to a variety of topic areas such as financial reporting, corporate governance, mergers and acquisitions, insurance, investment banking. Credit units: 3 ECTS Credit Units: 6. Aut (A. Demir, V. Ç. E. Paternotte)

SFL 336  French in Financial Communication II
This course aims to improve students’ ability to communicate effectively in a wide-range of accounting and financial contexts. Realistic case studies related to finance, banking operations, investments and economics will be used to develop language skills. Emphasis will be given to a variety of topic areas such as financial reporting, corporate governance, mergers and acquisitions, insurance, investment banking. Credit units: 3 ECTS Credit Units: 6. Prerequisite: SFL 335. Spr (V. Ç. E. Paternotte)

SFL 392  Common European Framework of Reference Level B2
French Language Proficiency text. All students entering the Translation and Interpretation (TRIN) programs in September 2009 are required to pass the Common European Framework of Reference test. (Level B2) in order to graduate. Credit units: None ECTS Credit Units: None. Spr (Staff)

SFL 405  Intercultural Business Communication
This course focuses on business communication in intercultural environments. Cross-cultural communication theories and a cultural framework will be used to assist in the analysis, evaluation and creation of appropriate business messages addressed to specific audiences in both English and French. Practical applications center on designing a multilingual/multicultural website. Credit units: 3 ECTS Credit Units: 6. Aut (E. Saatçi)

SFL 406  Integrated Marketing Communications (IMC)
This course introduces students to the areas that comprise IMC: public relations, advertising, direct marketing, sales promotions, events promotions and online communication. Using these communication tools, students learn how to target an audience (in English + French), assess communication options and formulate IMC plans for organizations. Credit units: 3 ECTS Credit Units: 6. Spr (M. N. Solakoğlu)

SFL 431  French in Corporate Communication
This course aims to develop communications competency in writing short reports, conducting meetings and delivering presentations through assignments designed to meet real organizations. Credit units: 3 ECTS Credit Units: 6. Aut (V. Ç. E. Paternotte)

SFL 432  Organizational Communication in French
Covering a range of communication issues and practices within business and other organizations, emphasis is placed on effective communication in French through oral and written reporting, proposals, negotiations and team presentations. Credit units: 3 ECTS Credit Units: 6. Prerequisite: SFL 431. Spr (V. Ç. E. Paternotte)

SFL 490  Common European Framework of Reference Level B1
French Language Proficiency text. All students entering the Banking and Finance (BF) and Accounting Information Systems (ACC) programs in September 2009 are required to pass the Common European Framework of Reference test. (Level B1) in order to graduate. Credit units: None ECTS Credit Units: None. Aut (Staff) Spr (Staff)
The School of Applied Technology and Management comprises three academic departments:

- Business Information Management
- Computer Technology and Information Systems
- Tourism and Hotel Management

The Department of Business Information Management (BIM) provides an “Applied Business” education with enriched “Information Management” and “Business Communications” components. BIM courses are designed to prepare innovative, adaptable graduates who have administrative and management skills and a solid grounding in the primary functions of business; who have the ability to use information effectively and to manage information resources and systems strategically; and who have sound teamwork and interpersonal communication abilities and can apply these skills equally to internal and external audiences. A very valuable part of the curriculum is the Industrial Training placement. This gives the student a “real life” business experience and adds a practical perspective to the theoretical studies. Students can specialize in the desired area of the study program through a wide variety of elective courses.

The Computer Technology and Information Systems Department (CTIS) aims to provide a first-rate education in the field of computers and information technologies for college and high school graduates who are willing to apply themselves diligently to a computer education and who wish to prepare themselves for the broad range of exciting career opportunities, in this dynamic and rapidly expanding field. The CTIS curriculum is designed to meet the popular and expanding IT industry requirements like mobile application development, networks and web technologies, data warehousing, where technical background is not sufficient and needs to be supported by social skills. To accomplish this, CTIS technical courses are complemented by a range of business studies. These include both management and social/communication courses. Main goal is to graduate students who are technically both competent and confident, who are innovative, adaptable, and who have sound teamwork and interpersonal communication skills.

The Department of Tourism and Hotel Management (THM) aims to prepare students for managerial and supervisory positions in hotel, restaurant and travel establishments, encouraging them to establish their own firms in hospitality and travel industries. Hotel and restaurant business, culinary arts and travel industry studies emphasized with management courses are taught theoretically. On-premise training facilities including the Practice Restaurant; fully equipped demonstration kitchen, the small quantity food laboratory, practice kitchen are the practical side of the curriculum. The THM Department also conducts industrial training programs, so that students may complete internships and externships providing real life experience with well known leading international hotel and restaurant chains and multinational travel and tour operators offering a healthy blend of theoretical and applied learning of the 21st century. Bilkent Hotel and Conference Center - Ankara is a significant part of the Departments’ training programs.

ACADEMIC STAFF

Mustafa Akgül, Associate Professor
Ph.D., Combinatorics and Optimization, University of Waterloo, 1981. Combinatorial optimization, mathematical programming, linear programming, theoretical computer science, nonsmooth optimization.

Beyhan Akporay, Instructor
M.S., Technology Management, University of Maryland University Collage, 2007. Software engineering, distributed systems, project management.
Duygu Albayrak, Instructor
Ph.D., Computer Education and Instructional Technology, Middle East Technical University, 2012. Discrete mathematics, information technologies. E-learning, distance learning, effectiveness of educational strategies, learning management systems, software engineering education.

Özlem Albayrak, Instructor

Syed Amjad Ali, Assistant Professor

Aysegul Altaban, Instructor
Ph.D., Industrial Engineering, Middle East Technical Engineering, 2013. Applied General Mathematics, Elements of Business mathematics, calculus, PC business applications, industrial training project, business research skills.

Oguz Benice, Instructor
Diplôme, Études Supérieures en Hôtellerie et Restauration, Ecole Hôtelière de Lausanne, Switzerland, 1992. Food and beverage operations, food and beverage management, Food production techniques.

Ibrahim Boz, Instructor

Jamel Ben Chafra, Instructor
M.B.A., Bilkent University, 1996. Rooms division management, service operations management, industrial training project, Finance, Accounting, Hospitality Management Accounting.

Ayse Bas Collins, Associate Professor
Ph.D., Educational Sciences, Middle East Technical University, 1999. Human resources management, senior project, social psychology, organizational behavior, Industrial Training Project, Research Techniques.

Hacer Cinar, Instructor
B.A., Business Administration, Hacettepe University, 1984. Accounting, tourism management applications, industrial training project, Managerial Accounting, Hospitality management accounting.

Gulgun Demirel, Instructor

Elif Denizci, Instructor

Fatma Guliz Esen, Instructor

Anthony Burnett Evans, Instructor

Serkan Genc, Instructor
Ph.D., Computer Engineering, Middle East Technical University, 2010. Computer graphics, operating systems, website design and implementation.
Eda Gürel, Assistant Professor
Ph.D., Business Administration, Hacettepe University, 2006. Marketing, world travel destinations, world geography, industrial training project, Strategic marketing, Electives, Senior project, Economics.

Arzu Sibel Çıkinci, Instructor
B.A., Economics, Hacettepe University, 1987. Hospitality industry computerization, website development 2, PC General Applications I, PC business applications II.

Ebru İnaç, Instructor

Günes Karamullaoğlu, Instructor
M.B.A., Social Sciences, Gazi University, 2000. Travel operations and management, tour development and implementation, event management, industrial training project, Introduction to Business, Seminars on tourism industry, Tourist Attractions of Turkey, Dynamics of tourism, Senior project.

Burcu Liman, Instructor
M.S., Computer Engineering, Atılım University, 2006. JAVA programming, e-learning, learning management systems.

Ayşe Nuriye Örer, Instructor
Ph.D., Dietetics and Nutrition, Hacettepe University, 1995. Nutrition and sanitation, hygiene, health studies, nutritional anthropology, industrial training project, Senior project.

Elif Sibel Özdiğer, Instructor

Nazende Özkaramete Coskun, Instructor
Ph.D., Economics, Yeditepe University, 2007. Microeconomics, Macroeconomics, Tourism economics, Quantitative Decision Techniques, Senior project, Industrial training project.

Perin Öztin, Instructor (on leave)

Aykut Pekcan, Assistant Professor

Vural Polat, Instructor

Kamer Rodoplu, Instructor

Nur Sağlam, Instructor

Okyay Say, Instructor

Mustafa Siyahhan, Instructor
M.S.J., Ohio University, 1974. Introduction to Business, Tourism Law, Principles of Marketing, senior project Industrial training project, Strategic marketing.
Neşe Şahin Özçelik, Instructor

Esin Senol, Instructor

Serpil Tın, Instructor
M.S., Electrical and Electronics Engineering, Middle East Technical University, 1991. Computer networks, data communications, software engineering, algorithms and programming languages, management information systems.

Saitmuş Topçu, Assistant Professor

Erkan Uçar, Instructor
Ph.D., Information Systems, Middle East Technical University, 2012. Software engineering, programming languages, IT outsourcing, business process reengineering, artificial intelligence.

Ali Ünal, Instructor

Rabia Üşenmez, Instructor
B.S., Computer Technology in Tourism, Bilkent University, 1998. Business computer applications, website development 1, PC general applications 1, PC general applications.

Hamdi Murat Yıldırım, Instructor
Ph.D., Mathematics, Middle East Technical University, 2007. Algorithms, operating systems, cryptography.

Füşun Yürüten, Instructor
M.S., Computer Engineering, Middle East Technical University, 1993. Database management systems, object oriented system analysis and design, systems development, programming languages.

VOCATIONAL SPECIALISTS

Nimet Ceren Serim
M.S., Computer Engineering, Atılım University, 2009.

Leyla Sezer
M.S., Computer Engineering, Atılım University, 2009

Hatice Zehra Yılmaz

PART-TIME ACADEMIC STAFF

Serdar Bilecen, B.S., Electrical and Electronic Engineering, Middle East Technical University, 1987.
BUSINESS INFORMATION MANAGEMENT

N. Sağlam (Chair), A. Altaban, G. Demirel, F. G. Esen, A. B. Evans, A. S. İkinci, E. İnanç, E. S. Özdilek, R. Uşenmez.


All major organizations place a high value on graduates who combine general business knowledge with solid computer and information management training, plus strong communication and interpersonal skills. The BIM study program is designed to prepare its students for this challenge. Specifically the curriculum has three main focuses:

**Business Administration:** Business Administration courses constitute about 40% of the curriculum. To provide a foundation in basic administrative and management skills, students are given a wide range of business studies. In addition to specialized courses like accounting, finance, statistics and law, students also gain a clear perspective of the human, organizational and social factors related to successful business operations, through a range of supporting business studies which provide a foundation in basic administrative and management skills.

**Information Management:** The courses on information management area address goals as active information finding, quantitative reasoning, analytical thinking and problem solving. Starting with extensive hands-on experience and business-oriented applications, students then learn to evaluate, select, implement and manage information systems. By the time they graduate, Business Information Management graduates will have experienced all phases of project development through a web-based project, which introduces 'creative elements', graphics design, plus new challenges in Information Systems Analysis and Information Architecture.

**Business Communications:** Business Information Management aims to graduate students who have strong teamwork and interpersonal communication abilities, developed through courses that focus on writing, speaking, presenting, debating and negotiating in English. The students also strengthen their verbal and written communication skills through an experience in various communication techniques such as; drama, presentation techniques, team discussions and the use of audio visual aids.

**Internship:** The curriculum includes both a 50-day summer training program and a full-semester corporate internship. These training programs are a significant part of the BIM curriculum and an important component of the students' development. Students experience, in first hand, the challenges, opportunities and frustrations of business life. They learn how to interact with people from a variety of backgrounds and to serve as contributing team members. They also gain the perspective and self-confidence they will need when selecting a career upon graduation. In fact, our students frequently receive offers for later full-time employment during their internship periods.

### CURRICULUM

#### FIRST YEAR

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<thead>
<tr>
<th>Autumn Semester</th>
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<tr>
<td>BIM 103</td>
<td>Keyboarding</td>
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<tr>
<td>BIM 121</td>
<td>PC Business Applications I</td>
</tr>
<tr>
<td>ECON 105</td>
<td>Principles of Economics I</td>
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<td>ENG 101</td>
<td>English and Composition I</td>
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<td>GE 100</td>
<td>Orientation</td>
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<td>SOC 101</td>
<td>Introduction to Sociology</td>
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<td>THM 105</td>
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<td>TURK 101</td>
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<tr>
<th>Spring Semester</th>
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<td>Elements of Business Mathematics</td>
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<td>BIM 122</td>
<td>PC Business Applications II</td>
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<tr>
<td>BIM 205</td>
<td>Principles of Accounting</td>
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<td>ECON 106</td>
<td>Principles of Economics II</td>
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<td>ENG 102</td>
<td>English and Composition II</td>
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<td>PSYC 100</td>
<td>Introduction to Psychology</td>
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**SECOND YEAR**

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<tr>
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<tr>
<td>BIM 201</td>
<td>Problem Solving and Algorithms</td>
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<tr>
<td>BIM 223</td>
<td>Business Communications I</td>
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<tr>
<td>BIM 242</td>
<td>Web Site Development I</td>
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<td>BIM 260</td>
<td>Financial Statement Analysis</td>
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<td>GE 250</td>
<td>Collegiate Activities Program I</td>
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<td>BIM 215</td>
<td>Database Management Systems</td>
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<td>BIM 224</td>
<td>Business Communications II</td>
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<td>BIM 261</td>
<td>Corporate Finance</td>
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<td>BIM 306</td>
<td>Decision Analysis</td>
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<td>GE 251</td>
<td>Collegiate Activities Program II</td>
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<tr>
<td>HIST 200</td>
<td>History of Turkey</td>
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<tr>
<td>THM 309</td>
<td>Principles of Marketing</td>
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**THIRD YEAR**

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<td>Managerial Accounting</td>
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<td>BIM 231</td>
<td>Business Research Skills</td>
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<td>BIM 316</td>
<td>Information Systems Analysis</td>
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<tr>
<td>BIM 341</td>
<td>Web Site Development II</td>
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<td>BIM 390</td>
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<tr>
<td>BIM 310</td>
<td>Industrial Training Project</td>
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<tr>
<td>BIM 418</td>
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<td>LAW 313</td>
<td>Business Law</td>
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<tr>
<td>BIM 405</td>
<td>Organizational Behaviour</td>
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<td>BIM 406</td>
<td>International Business</td>
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<tr>
<td>BIM 492</td>
<td>Strategic Management</td>
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<td>Restricted Electives (2)</td>
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**RESTRICTED ELECTIVES**

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<td>ACC 360</td>
<td>Cost Accounting and Computerized Accounting Applications</td>
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<tr>
<td>ACC 425</td>
<td>Commercial Law</td>
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<tr>
<td>ACC 454</td>
<td>International Auditing</td>
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<td>ACC 463</td>
<td>International Financial Reporting Standards (IFRS)</td>
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<td>ACC 464</td>
<td>Taxation and Turkish Tax Law</td>
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<tr>
<td>ACC 476</td>
<td>Graduation Project in Accounting Information Systems and Auditing</td>
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<tr>
<td>BF 264</td>
<td>Elements of Money and Banking I</td>
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<tr>
<td>BF 362</td>
<td>Banking Operations</td>
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<td>BF 383</td>
<td>Ethics, Responsibility and Citizenship</td>
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<td>BF 464</td>
<td>International Finance</td>
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<td>BF 480</td>
<td>Applied Capital Markets</td>
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<td>BF 485</td>
<td>Introduction to Bank Risk Analysis and Evaluation</td>
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<td>BF 488</td>
<td>Computerized Insurance Services and Operations</td>
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<td>BIM 402</td>
<td>Advanced Selling Skills</td>
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<td>BIM 403</td>
<td>Communications Skills</td>
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<td>BIM 404</td>
<td>Interactive Communications</td>
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<td>BIM 413</td>
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<td>BIM 416</td>
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<td>BIM 419</td>
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<td>BIM 420</td>
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<td>BIM 421</td>
<td>Total Quality Management</td>
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<td>BIM 423</td>
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<td>Contemporary Practices in Human Resources Management</td>
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<td>European Union</td>
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<td>BIM 441</td>
<td>UFO: Undefined Fields in creating Opinion</td>
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<td>BIM 445</td>
<td>Implementing Web Based Intra Portals</td>
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<td>BIM 450</td>
<td>Multimedia Techniques</td>
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<td>BIM 451</td>
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<td>BIM 494</td>
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<td>BIM 496</td>
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<td>Selected Topics in Information Management</td>
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<tr>
<td>CAA 245</td>
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<td>CAA 246</td>
<td>Principles of Banking and Insurance</td>
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<td>CTE 211</td>
<td>Programming Languages I</td>
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<tr>
<td>CTE 212</td>
<td>Programming Languages II</td>
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<td>CTE 218</td>
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<td>Network Structures and Communication</td>
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<td>Programming for the Internet I</td>
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<td>GE 471</td>
<td>Business and Legal Considerations for Technology Startups</td>
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<td>IR 305</td>
<td>International Organizations</td>
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<td>IR 333</td>
<td>Foreign Policy Analysis</td>
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<td>IR 335</td>
<td>International Relations Theory</td>
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<td>IR 347</td>
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<td>IR 494</td>
<td>Causes and Prevention of War</td>
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<td>MAN 302</td>
<td>Business Forecasting</td>
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<td>MAN 303</td>
<td>Business Ethics and Social Responsibility</td>
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<td>MAN 306</td>
<td>Market Research</td>
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<td>MAN 404</td>
<td>Investment Analysis</td>
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<td>MAN 407</td>
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<td>MAN 408</td>
<td>Fundamentals of Entrepreneurships Management</td>
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### COURSE DESCRIPTIONS

**BIM 100  Applied General Mathematics**  
Applied General mathematics aims at helping the students to remind basic algebra topics and improve analytic thinking capabilities. The course starts with number systems, exponents, radicals, ratios, proportions, percentages, systems of equations/inequalities, analytic study of lines, graphs. A basic introduction to set theory is also given.  
_Credit units: None ECTS Credit Units: None. Aut (A. Durukal) Spr (Staff)_

**BIM 103  Keyboarding**  
With the proliferation of personal computers and computer workstations, keyboarding proficiency has become an important skill for employees at all levels of an organization, and is of immediate value to undergraduate students. This course introduces the touch typewriting system to beginning students. The emphasis is upon developing the correct techniques to achieve speed and accuracy, using a personal computer. By the end of this course, the student will be able to touch type without visual assistance on a standard keyboard.  
_Credit units: 3 ECTS Credit Units: 5. Aut (G. Demirel) Spr (G. Demirel)_

**BIM 107  Elements of Business Mathematics**  
This course provides the students who study business with three important needs: (a) strong mathematical background, (b) effective methods of solving mathematical problems in business, (c) advanced analytical approach to complex mathematical problems. The course focuses on dealing with business mathematics scenario problems in various contexts. The scenarios covered are: problems in economics, problems in financial calculations and problems in production settings. The students are familiarized with using linear and quadratic equations, their graphs and functions for solving various business and real life scenarios. The course lays the foundation for further mathematical departmental courses; Business Statistics and Decision Analysis.  
_Credit units: 3 ECTS Credit Units: 5. Prerequisite: BIM 100. Spr (A. Altaban)_

**BIM 108  Elementary Business Statistics**  
In this course, statistics and its role in managerial decision making; discrete and continuous numerical data; level of measurement for numerical data; graphical description of data, descriptive measures, basic counting rules, probability concepts, discrete probability distributions; continuous probability distributions; standard, normal, t, chi square and F distribution; sampling and statistical inference; hypothesis testing; bivariate data; regression; correlation will be covered.  
_Credit units: 3 ECTS Credit Units: 5. Prerequisite: BIM 105 or BIM 107. Aut (S. Kadayifcilar)_

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**MAN 410  Innovation Management**  
_Credit units: 3 / 6_

**MAN 414  Auditing**  
_Credit units: 3 / 6_

**MAN 417  Entrepreneurial Marketing**  
_Credit units: 3 / 6_

**MAN 419  Marketing Strategy and Innovation**  
_Credit units: 3 / 6_

**MAN 421  Capital Markets and Institutions**  
_Credit units: 3 / 6_

**MAN 422  International Finance**  
_Credit units: 3 / 6_

**MAN 424  Risk Management**  
_Credit units: 3 / 6_

**MAN 425  Corporate Financial Strategy**  
_Credit units: 3 / -_

**MAN 430  Anthropological Marketing**  
_Credit units: 3 / 6_

**MAN 432  Consumer Behavior**  
_Credit units: 3 / 6_

**MAN 433  Global Marketing and Emerging Markets**  
_Credit units: 3 / 6_

**MAN 434  Integrated Marketing Communications**  
_Credit units: 3 / 6_

**MAN 439  New Product Development**  
_Credit units: 3 / 6_

**MAN 440  Revenue Management**  
_Credit units: 3 / 6_

**MAN 447  Project Management**  
_Credit units: 3 / 6_

**MAN 462  Human Resources Management**  
_Credit units: 3 / 6_

**MAN 467  Cross-Cultural Management**  
_Credit units: 3 / 6_

**MAN 474  European Union and Turkey: Trade and Policies**  
_Credit units: 3 / 6_

**POLS 306  Contemporary Turkish Politics**  
_Credit units: 3 / 6_

**POLS 426  Civil Society in Turkey**  
_Credit units: 3 / 6_

**THM 242  Social Psychology**  
_Credit units: 3 / 5_

**THM 245  Purchasing and Cost Analysis**  
_Credit units: 3 / 5_

**THM 247  Food and Beverage Management**  
_Credit units: 3 / 5_

**THM 301  Human Resources Management**  
_Credit units: 3 / 5_

**THM 327  Event Management**  
_Credit units: 3 / 5_
BIM 109  Keyboarding
With the proliferation of personal computers and computer workstations, keyboarding proficiency has become and important skill for employees all levels of an organization, and is of immediate value to undergraduate students. This course introduces the touch typewriting system to a beginning student. *Credit units: 2 ECTS Credit Units: None. Spr (G. Demirel)*

BIM 121  PC Business Applications I
Business life is about having choices and making decisions. Learning about and understanding computers and technology will help future graduates to make informed choices. In this context, the course starts with fundamental concepts of information technology, managing and organizing computers and file structures. Then it continues with detailed content based on a word processor and presentation program. Beyond the theoretical subjects in written and visual communication, the course is supported by laboratory sessions. Used tools in laboratory are selected from widely used software programs. End of the course students can have internationally recognized qualification exams which enables people to demonstrate their competence in computer skills. *Credit units: 3 ECTS Credit Units: 5. Aut (A. Altaban, A. S. İkinci) Spr (Staff)*

BIM 122  PC Business Applications II
This course is focused on advanced and in-depth coverage of spreadsheets, using MS-Excel. Starting with the very basics - spreadsheet anatomy, data types, data entry, editing and formatting - the student progresses to advanced use of MS-Excel, through case studies that employ a range of mathematical, statistical, financial, logical and lookup functions. Use of macros plus graphical data representations are also included. Data Sorting, Filtering techniques will be covered in addition to learning how to prepare an excel model that is safe and easy to be used by others. *Credit units: 3 ECTS Credit Units: 5. Prerequisite: BIM 121. Aut (Staff) Spr (Staff)*

BIM 191  PC General Applications I
This course provides students with fundamentals of office computing through use of word processing, spreadsheets and presentation software packages. The course objective is to equip students with sufficient knowledge and skills for preparing effective reports and presentations in business life. Grading consists of 3-4 lab-based examinations and a final examination. *Credit units: 3 ECTS Credit Units: 5. Aut (F. Esen) Spr (Staff)*

BIM 201  Problem Solving and Algorithms
The aim of the course is to improve the students' analytical thinking and problem solving skills using a programming approach. The course will cover the basic problem solving concepts that the students need to know and understand when working with any programming language or application. The fundamental steps of structured programming, building conditions, repetition, functions and array manipulation are the main topics covered in the course. *Credit units: 4 ECTS Credit Units: 6. Aut (S. Alı) Spr (Staff)*

BIM 205  Principles of Accounting
The course introduces the business environment, basic mechanics of record keeping and reporting of financial statement information. The topics covered include the generally accepted accounting principles, the accounting cycle, preparation and reporting of financial statements (balance sheet, income statement, and statement of shareholders' equity). The course aims to familiarize students with various tools and techniques in accounting. A widely used accounting software and Microsoft Excel are used for recording transactions and preparation of financial statements. *Credit units: 3 ECTS Credit Units: 5. Aut (Staff) Spr (Staff)*

BIM 206  Managerial Accounting
In this course the principles, techniques, and uses of accounting in the planning and control of business organizations will be examined from a management perspective. Special emphasis will be put on evaluation of business and financial data for decision making at different levels of management, in service, merchandising and manufacturing businesses. The principal topics encompasses; responsibility accounting, reporting centers, cost volume profit analysis, cost behaviour, costing systems, pricing methods, budgetary process and operations budget, preparation and analysis of the statement of cash flows. Spreadsheets and fundamental business mathematics are some of the methods that are used. *Credit units: 3 ECTS Credit Units: 5. Aut (H. Çınar)*

BIM 215  Database Management Systems
The course starts with an explanation of the techniques and methodologies of Database Management Systems in particular with the Entity Relationship approach to data modeling, and the relational model of DBMS. File systems and databases, the relational database model are introduced in database the concepts part. Entity relationship (E-R) modeling, normalization of database tables and Structured Query Language (SQL) are covered in the design concepts part. These theoretical concepts are applied and enhanced through labwork sessions, during which students will analyze, design, create and manipulate databases. The students gain the effective use of database application by using Microsoft Access. Finally, the contributions of DBMS to an organization’s operations, control and planning activities will be studied. Students carry out a term project to implement the subjects introduced in both class and labwork sessions. *Credit units: 4 ECTS Credit Units: 6. Prerequisite: BIM 201. Aut (F. G. Esen, R. Üşenmez) Spr (Staff)*
BIM 223  Business Communications I  
This course is aimed at students in all fields, but especially for future managers who should be aware of the vital role of communications in effective organizational management. The course will help students evaluate their own behaviour to better understand themselves and to understand how to effectively interact with others. The course covers aspects of both interpersonal and intrapersonal communication and uses a performance-based approach that helps the students to position themselves for success in tomorrow's job market. Credit units: 3 ECTS Credit Units: 5. Aut (E. İnanç)

BIM 224  Business Communications II  
The course aim is to study and understand all aspects of behaviour at work, to explore how leaders use power and influence to achieve organizational commitment and effectiveness. In this course, students will discuss topics ranging from organizational culture, appropriate types of power, influence with and without authority, to business ethics plus effective goal setting and planning. Students learn concepts and strategies to navigate and apply influence in an organization. The course will cover a tactical-versus-strategic approach to address challenges and achieve higher business goals. Credit units: 3 ECTS Credit Units: 5, Prerequisite: BIM 223. Aut (E. S. Oçkalek) Spr (Staff)

BIM 231  Business Research Skills  
This course enhances student’s basic research skills in qualitative and quantitative methods by assisting students in developing knowledge in business research methods. Completing the course, students will be able to have knowledge of the key terms and concepts in the business research process and apply critical, scientific, and ethical thinking in solving research-related problems. They will learn to make effective review of the literature and develop a clear and well organized research proposal. The will experience conducting a primary research, including research design, sampling procedures, measurement issues, development of a data collection instrument, and data collection, processing, analysis and interpretation. They will learn how to analyze and interpret collected data by using appropriate statistical methods and to write the research report in proper format. Credit units: 3 ECTS Credit Units: 5.

BIM 242  Web Site Development I  
This course covers the basics that Web Developers need to develop their skills: Internet Concepts, Creating Web pages with XHTML comparing with HTML5, configuring text, color, and page layout with CSS, Web Development process using media and interactivity on Web pages and embedding JavaScript. Students will analyze, design and publish Web sites, using popular technical tools including DreamWeaver CS3, Adobe Photoshop CS3, and publish Web sites, using popular technical tools including DreamWeaver CS3, Adobe Photoshop CS3. Students will prepare a Web site as a project will be demonstrated to other project groups and a jury at the end of the semester. Credit units: 3 ECTS Credit Units: 5. Aut (R. Üşenmez)

BIM 260  Financial Statement Analysis  
The first half of this course is devoted to an in-depth study of the content of Financial Statements, commencing with a review of IFRS and accrual accounting. Students then learn to analyze, interpret and draw conclusions about a company's "health" based on its financial statements. Topics include earnings quality, cash flow analysis, ratio analysis and capital structure. Trend analyses and common size statements are created using Excel. Upon completion students will understand both the importance and limitations of using financial statements to evaluate how well a company is managing its operating, investing and financing activities. Credit units: 3 ECTS Credit Units: 5, Prerequisite: BIM 205 or THM 106. Aut (A. B. Evans) Spr (Staff)

BIM 261  Corporate Finance  
Building on the knowledge gained in BIM 260 Financial Statement Analysis, this course focuses on how corporations plan and attain financial objectives. The challenge is to efficiently and profitably raise, allocate and manage the firm’s capital resources; the goal is to maximize company cash flows, stock value and thus shareholder wealth. Topics in this exploratory course include TVM, capital markets, WACC, capital budgeting, working capital management, short versus long term funding, dividend policy, plus financial forecasting and planning. Credit units: 3 ECTS Credit Units: 5, Prerequisite: BIM 260 or BIM 360. Spr (Staff)

BIM 282  Hospitality Industry Computerization  
The objective of the course is to introduce the students to the principles of EDP (Electronic Data Processing) and hotel MIS (Management Information Systems), and to explore the role of information in operational and management decision making. The course aims to enhance the students’ understanding of hotel operations and management, and integrate their understanding of other theoretical courses, such as Rooms Division Management. It is both a theoretical and a practical course. In the practical part of the course, OPERA Property Management System (PMS) is used as a tool. This system is designed to meet the varied requirements of any size hotel or hotel chain. It provides all the tools a hotel staff needs for doing their day-to-day jobs. Credit units: 3 ECTS Credit Units: 5. Aut (N. Sağlam) Spr (Staff)

BIM 306  Decision Analysis  
The objective of this course is to explore basic tools of decision making. A familiarity with elementary mathematical subjects such as functions, linear equations, matrices, probability theory and basic statistical concepts is required. These fundamental subjects are reviewed briefly in the beginning of the course. In studying these
BIM 310 Industrial Training Project
The student will spend one semester working in industry. This provides the student with an opportunity to apply his present knowledge in a real-life environment, and to observe, document and evaluate the operations of a department. The student will be required to present an analysis of his experience, identifying the factors contributing to the success and/or problems of the department. The student’s contributions to the department during his internship will be evaluated by his manager. Credit units: 4 ECTS Credit Units: 30, Prerequisite: BIM 390. Aut (E. S. Öz醍ektek, N. Sağlam, R. Üşenmez) Spr (Staff)

BIM 316 Information Systems Analysis
The course offers a layout that reflects real-world systems analysis skills and techniques within the framework of the systems development life cycle (SDLC). Strategic planning, review of systems requests, and the steps in a preliminary investigation are included in analyzing the business case. Creation of a logical model for the new system by using entity-relationship diagrams, data flow diagrams and process description tools are the basic topics discussed in the enterprise modeling. Microsoft Project, a project management tool, is used to plan, schedule, monitor and manage IT projects. Upon successful completion of this course, students will know how to translate business requirements into information systems that support a company’s short- and long-term objectives. Credit units: 3 ECTS Credit Units: 5, Prerequisite: BIM 215. Aut (Ö. Albayrak) Spr (Staff)

BIM 341 Web Site Development II
This course reinforces and builds on the basics taught in BIM 242. Students will learn how to convert static web sites into response empowered sources of dynamic information. Using a programming language (PHP) students will develop interactive feedback web pages and a database support system. Working in teams, students will prepare a website at which visitors can review products or services and can place on-line orders or requests for further information. Credit units: 4 ECTS Credit Units: 6, Prerequisite: BIM 201 and BIM 215 and BIM 242. Aut (A. S. İnci) Spr (A. S. İnci)

BIM 375 Public Relations
This course teaches students the basic concepts of effective public relations and prepares them for the ethical practice of public relations in today’s fast-changing, competitive world. The students are expected to attain an advanced standing and possess a knowledge of the most current issues and developments in this field. As a final hands-on-project, the students are encouraged to conduct scientific research and carry out a PR project with a selected firm from industry, and thus have an opportunity to apply their learnings in an actual business situation. Credit units: 3 ECTS Credit Units: 6, Prerequisite: BIM 201 and BIM 215 and BIM 242. Aut (E. S. Öz醍ektek) Spr (A. S. İnci)

BIM 390 Summer Training
This program provides the students with exposure to the workplace, in a supervised setting. Summer Training assignments are scheduled and monitored through the school’s Industrial Training Office. The main objective is for the student to obtain practical real-life experience of the working environment. This training, which comprises a minimum of fifty (50) working days, is undertaken during the summer break following completion of the student’s second academic year. Credit units: None ECTS Credit Units: None.

BIM 402 Advanced Selling Skills
The task of “selling” is becoming more and more challenging each year. This course is designed to develop sales professionals who possess the required knowledge and skills to succeed in this profession. The course defines and uses the selling process as a platform to address the needs of complex sales situations. When there is a requirement to go beyond the basic selling models, particularly in large volume sales situations, this course can enhance the sales performance of even the best Sales Representatives. Credit units: 3 ECTS Credit Units: 6.

BIM 405 Organizational Behaviour
This course covers the foundation for the study and application of organizational behavior. The perspective, historical background, methodology and theoretical framework for human behavior in organizations are studied. The aim is to define the purpose and nature of the field of organizational behavior, differentiate between the dominant perspectives in the field, differentiate between various types of behavior modification theories and techniques, analyze different concepts related with decision-making, change management, managing stress, conflict and communication. Attention is given to the micro perspective (perception, personality and attitudes, motivation, and learning), the dynamics (group dynamics, conflict, stress, power and politics, and leadership), and organizational culture. Credit units: 3 ECTS Credit Units: 6.
BIM 406 International Business
The course offers a layout to view international business, multinational enterprises and globalization. Drivers of going global, challenges and opportunities are discussed. Internationalization process is analysed from both the environment perspective and adapting marketing mix to international markets. Different approaches for enterprises getting involved in doing business abroad, either through exporting or setting up production and marketing facilities in foreign countries is laid out. Visionary leadership, organizational culture and structure, functions (control, coordination, participation) and processes, human resources management and finance are topics to view in detail to learn how a multinational company operates. Upon successful completion of this course, students learn how to apply and interpret business rules in an international environment, coping up with changing social and technological environments and positioning goods and services in them. Credit units: 3 ECTS Credit Units: 6. Spr (Staff)

BIM 413 Marketing Management

BIM 416 Negotiation Skills
Negotiation is a life skill. Every day we negotiate with colleagues, suppliers or customers. Negotiation skills can have a serious impact on profits, project deadlines, your reputation with your colleagues and your ability to implement change successfully. This course will help students to: Recognise the strengths and weaknesses of their negotiation style; Plan and prepare effectively for a negotiation; Cope with difficult negotiations; Know how to trade concessions conditionally and; Adapt their style in differing situations. Credit units: 3 ECTS Credit Units: 6. Aut (S. Bilecen)

BIM 417 Senior Seminars in Business Information Management
This course comprises a series of seminars designed to help the students to plan and launch their business careers. The course features an engaging discovery-oriented approach to career development, one that includes exploration of the world of work, student’s personal needs and preferences, and strategies for finding an optimal match for the student in the world of work. The guest speakers for this course will share their personal experiences and observations of the sector in which they are employed. Students will benefit from exposure to a broad range of different business functions and departments, such as HR, IT, Sales, Marketing, and PR. Credit units: 3 ECTS Credit Units: 6. Aut (E. S. Özdişlek) Spr (Staff)

BIM 418 Management Information Systems
The goal of this course is to help students learn how to use and manage information technologies to design business processes, improve business decision making and gain competitive advantage in business world. Particular emphasis is placed on Internet technologies that provide a platform for business collaboration processes among all stakeholders in today’s networked enterprises and global markets. The course is built on five major areas of information systems knowledge needed by business professionals: Foundation Concepts, Information Technologies, Business Applications, Development Processes and Management Challenges. The course is given with a manageria perspective and heavy emphasis is placed on business scenario analyses. Leading information technology professionals are hosted as guest speakers. Credit units: 3 ECTS Credit Units: 6. Aut (A. Altaban)

BIM 419 Strategic Brand Management
Brand management strategy is the platform that drives all other marketing functions within an organization, including product development, distribution, pricing strategies and marketing communications strategies. The aim of this course is to review the history of brands and branding, their importance, and the role of brand equity in a firm. Also, students will find out how to analyze brand management strategies plus learn how to manage brand equity, create a brand identity and positioning; establish a competitive advantage; and capitalize on consumer insight. Product pricing, distribution strategy and measuring brand equity are also covered. Credit units: 3 ECTS Credit Units: None.

BIM 423 Advertising Management
This course is an introduction to both the theory and practice of advertising and provides important insights into how advertising is done. The main purpose is to develop the ability to manage basic advertising campaigns on the client side. The course is designed to introduce the student to advertising foundations and environment. How advertising began, and where it fits in today’s market will be discussed. Social issues, ethics, regulation, and responsibility will be covered. The students as future clients to the advertising agencies will be able to practice the progress of an agency while campaigning with the research methods and strategic planning for advertising. Print, broadcast, and interactive online media will be analyzed. The creative process will be discussed and practised. Through the semester students will be asked to perform as an advertising agency and to prepare a campaign in the field of their choosing for a product or service they develop. Credit units: 3 ECTS Credit Units: 6. Aut (Ç. Başarır)
BIM 426  
**Small Group and Team Communication**
This course examines how group behavior affects organizational effectiveness, decision making, conflict resolution, and strategies for efficient group and task management. Through activities in this course, student will explore their leadership skills specifically related to groups and group social process. Emphasis will be placed on such topics as group decision-making, participation in groups, power and authority, and a variety of communication styles. Through active participation and observation of team dynamics, students will examine the principles of building and sustaining highly effective teams. The highly interactive approach used in this course connects theory with experience through team-based activities.  
**Credit units: 3** ECTS Credit Units: 6.  
Aut (E. İnanç) Spr (E. İnanç)

BIM 441  
**UFO: Undefined Fields in creating Opinion**
Psychology of Persuasion in Business couples scientific research on the psychology of decision making in business to better understand what motivates financial decisions. In this lecture, students will learn about why some of the many ways in which human beings behave in rational and irrational, and how people might overcome our shortcomings. They'll also learn about cases where our decisions work in our favor, and how we can harness these human tendencies to make better decisions. Lastly, they will learn to help people to make better decisions in their favor.  
**Credit units: 3** ECTS Credit Units: 6.  
Spr (S. Bilecen)

BIM 450  
**Multimedia Techniques**
Good story-telling is a key ability for a creative mind, regardless of the field of work. This course introduces students to multimedia tools and techniques that help develop this story-telling ability. Through practical exercises and weekly assignments students, working in groups, will produce a short film, employing various digital media, such as graphics, video, animation, sound, etc. Script writing, screenplay and movie making techniques will be covered. The course will focus on special multimedia editing softwares such as Adobe Premiere and Adobe Photoshop. Adobe Flash technology will also be examined to understand the basics of animation and interactivity.  
**Credit units: 3** ECTS Credit Units: 6.  
Spr (Ç. Başarır)

BIM 490  
**Project Management**
Project management is the application of knowledge, skills, tools, and techniques to project activities to meet project requirements. The course introduces the project management discipline and the project management life cycle. It covers a comprehensive view of the project management processes (initiating, planning, executing, monitoring and controlling, and closing) and PMIs (Project Management Institute) project management methodology including nine knowledge areas (Scope Management, Integration Management, Time Management, Cost Management, Quality Management, Risk Management, Procurement Management, Human Resource Management and Communication Management). The students will also learn the advanced features of MS-Project and will be able to use it in their project implementation.  
**Credit units: 3** ECTS Credit Units: 6.  
Aut (B. Kivrak)

BIM 492  
**Strategic Management**
There are three interrelated phases in this Capstone course. Firstly students learn the processes of Strategic Management plus Porter’s Generic Strategies and Five-Forces. In the second phase student teams use what they have learned to run a $100 million company, using a dynamic business simulator that requires integration of many management functions, including product development, production, pricing and marketing, financial planning and forecasting and strategic positioning of the firm within market segments. This enables students to apply knowledge they have obtained in their previous three years of study. In the final phase students are introduced to “Blue Ocean Strategy” and contrast this with the competitive models learned at the start of the course.  
**Credit units: 3** ECTS Credit Units: 6.  
Aut (A. B. Evans) Spr (Staff)
**COMPUTER TECHNOLOGY AND INFORMATION SYSTEMS**


Department of Computer Technology and Information Systems offers a four-year BSc. degree in information technology (IT) and information systems (IS) with a curriculum concentrated in software development and designed to meet the popular and expanding IT industry requirements. A semester-long industrial training opportunity - in their 3rd year - enables our students to practically apply their background on topics like database, data communications and networking, Internet and e-commerce applications, software engineering, programming and even get solid job offers from contemporary software companies.

Technical courses are complemented by a range of business studies. These include both management and social/communication courses. Our aim is to graduate students who are technically both competent and confident, who are innovative, adaptable, and who have sound teamwork and interpersonal communication skills.

### CURRICULUM

#### FIRST YEAR

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<tr>
<th>Autumn Semester</th>
<th>Credits / ECTS Credits</th>
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<tbody>
<tr>
<td>CTIS 151</td>
<td>Introduction to Programming</td>
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<tr>
<td>CTIS 163</td>
<td>Discrete Mathematics</td>
</tr>
<tr>
<td>CTIS 165</td>
<td>Fundamentals of Information Systems</td>
</tr>
<tr>
<td>ENG 101</td>
<td>English and Composition I</td>
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<td>GE 100</td>
<td>Orientation</td>
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<td>TURK 101</td>
<td>Turkish I</td>
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<tr>
<th>Spring Semester</th>
<th>Credits / ECTS Credits</th>
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<tbody>
<tr>
<td>CTIS 152</td>
<td>Algorithms and Data Structures</td>
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<tr>
<td>CTIS 164</td>
<td>Technical Mathematics with Programming</td>
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<td>CTIS 166</td>
<td>Information Technologies</td>
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<tr>
<td>EN 102</td>
<td>English and Composition II</td>
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<td>THM 105</td>
<td>Introduction to Business</td>
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<td>TURK 102</td>
<td>Turkish II</td>
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#### SECOND YEAR

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<tbody>
<tr>
<td>CTIS 251</td>
<td>Object Oriented Programming</td>
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<tr>
<td>CTIS 255</td>
<td>Web Technologies I</td>
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<tr>
<td>CTIS 259</td>
<td>Database Management Systems and Applications</td>
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<tr>
<td>CTIS 261</td>
<td>Computer Networks I</td>
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<tr>
<td>GE 250</td>
<td>Collegiate Activities Program I</td>
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<tr>
<td>THM 258</td>
<td>Principles of Economics</td>
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<tbody>
<tr>
<td>CTIS 252</td>
<td>Programming in Java</td>
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<tr>
<td>CTIS 256</td>
<td>Web Technologies II</td>
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<td>CTIS 262</td>
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<td>CTIS 264</td>
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#### THIRD YEAR

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<tr>
<td>CTIS 290</td>
<td>Summer Training</td>
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<tr>
<td>CTIS 359</td>
<td>Principles of Software Engineering</td>
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<tr>
<td>CTIS 363*</td>
<td>Ethical and Social Issues in Information Systems</td>
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<tr>
<td>CTIS 487</td>
<td>Mobile Application Development</td>
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<td>ELS 301</td>
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<td>CTIS 310</td>
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**FORTH YEAR**

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<tr>
<td>CTIS 411</td>
<td>Senior Project I</td>
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<tr>
<td>CTIS 415</td>
<td>Advanced Software Engineering</td>
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<td>CTIS 457</td>
<td>Survey in Information Technologies</td>
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<td>CTIS 456</td>
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<td>CTIS 458</td>
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**MANAGEMENT ELECTIVES**

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<td>BIM 223</td>
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<tr>
<td>BIM 224</td>
<td>Business Communications II</td>
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<td>BIM 260</td>
<td>Financial Statement Analysis</td>
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<td>BIM 261</td>
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<td>BIM 416</td>
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<td>BIM 419</td>
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<td>THM 477</td>
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**RESTRICTED ELECTIVES**

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<td>CTIS 454</td>
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COURSE DESCRIPTIONS

CTIS 151 Introduction to Programming
An introduction to programming from both design and programming standpoints. Syntax and semantics of programming languages. Programming style. Program debugging and testing. Data representation, simple arithmetic expressions, decision and control statements. Arrays. Introduction to standard libraries, structured and modular programming technique will be introduced along with the usage of C language. (Four hours lecture, four hours lab, one hour recitation.) Credit units: 5 ECTS Credit Units: 8. Aut (B. Liman, S. Tin) Spr (O. Say)

CTIS 152 Algorithms and Data Structures
Implementation of abstract data types and structures. Dynamic data structures. Strings, stacks, queues, linked lists, doubly linked lists. Multidimensional structures. Recursion. Implementation of basic searching and sorting methods. File I/O (Four hours lecture, four hours lab, one hour recitation.) Credit units: 5 ECTS Credit Units: 8. Prerequisite: CTIS 151. Aut (O. Say) Spr (S. Tin)

CTIS 163 Discrete Mathematics
This course focuses students on the construction and computation of objects. Designed as an introductory course in discrete mathematics, it serves a variety of majors, including mathematics, and computer science. Logic and proof. Elements of logic, mathematical induction and operations relations and functions and counting methods. The course introduces algebra that directly applies to computer science. In addition to Boolean algebra, abstract data types are introduced as algebras and computational algebras. Topics include graph theory, Boolean algebra, theory of trees, combinational circuits, automata theory, grammars and languages. (Four hours lecture.) Credit units: 4 ECTS Credit Units: 6. Aut (D. Albayrak, S. Topçu) Spr (D. Albayrak)

CTIS 164 Technical Mathematics with Programming
The objective of this course is to familiarize students with fundamental concepts in technical mathematics and calculus using programming. The course will cover topics from functions and graphs, linear equations, quadratic equations, trigonometry, inequalities, exponential and logarithms, matrices and determinants, plane analytic geometry, differentiation and integration. On successful completion of this course a student is expected to have enough mathematical and programming experience to deal easily with computer graphics and other mathematical based programming areas in information technology. (Four hours lecture.) Credit units: 4 ECTS Credit Units: 5. Prerequisite: CTIS 151. Spr (S. Genc)

CTIS 165 Fundamentals of Information Systems
The course introduces the fundamental concepts of information systems with historical and evolutionary perspectives. Some of these topics are systems, organizational and strategic role and added value of information systems, decision support systems, data mining, MIS, information systems planning, data management, computer networking, internet, analysis, design, development, and maintenance of information systems, competitive edge of information systems. This course reflects an extensive summary of the curriculum as well. (Three hours lecture, one hour lab.) Credit units: 3 ECTS Credit Units: 6. Aut (Ö. Albayrak, E. Uçar) Spr (Ö. Albayrak, E. Uçar)

CTIS 166 Information Technologies
The course introduces basic operating system concepts by using Linux operating system. Covered Linux topics include: Linux GUI, kernel, CUI, shells, basic shell programming, Linux file system architecture, file security, linux tools for software developments, etc. The course also introduces networking and internetworking concepts. (Three hours lecture, one hour lab.) Credit units: 3 ECTS Credit Units: 6. Aut (H. M. Yıldırım) Spr (H. M. Yıldırım)

CTIS 251 Object Oriented Programming
The objective of the course is to make the students familiar with the object oriented programming paradigm by focusing on the principal concepts such as objects, classes, encapsulation, modular design, hierarchy between classes, inheritance, polymorphism and abstract classes. Java language will be used as the programming language and all the applications and examples both in the lecture and in the lab will be implemented using Java. (Four hours lecture, three hours lab.) Credit units: 5 ECTS Credit Units: 7. Prerequisite: CTIS 152. Aut (B. Liman) Spr (O. Say)
CTIS 252 Programming in Java
The main goal of this course is to teach advanced subjects of programming in java. The course content will be taught together with example programs and lab practice. The students are expected to have a background on object oriented programming concepts with Java. The course topics are: JApplet, Multi Frame, Jdialog, Java I/O, File Operators, Serialize objects, Generics, Collections, Multi-Threaded Programming, Using Threads, Creating a Multi-Threaded Program, Thread Synchronization, JDBC, Overview of SQL Language, Overview of JDBC and its drivers, JDBC API: connections, statements, result sets, Using JDBC: updates, queries, Basic Networking, Overview of Networking, Networking Concepts, Identifying Your Computer's IP Address, Using the InetAddress Class, Sockets, Implementing the Client Side of a Socket, Implementing the Server Side of a Socket, Developing a multi-threaded Server, Datagram Socket, Servlet, Java Server Pages, Personalizing the Site, Displaying Dynamic Content, Remote Method Invocation (RMI), Java Beans, J2EE, Model View Controller (MVC). (Four hours lecture, four hours lab.) Credit units: 5 ECTS Credit Units: 8, Prerequisite: CTIS 251. Aut (N. Şahin Özcöl) Spr (B. Liman)

CTIS 255 Web Technologies I
The objective of the course is to give the necessary background information and the technologies to develop a professional web site. It focuses mainly on design and implementation of interactive web pages using different web technologies like html, dhtml, css, javascript, flash. Through both lectures and laboratory work, students will gain a comprehensive understanding of the Internet and the purpose and value to an organization of owning a website. (Three hours lecture in lab.) Credit units: 3 ECTS Credit Units: 5, Prerequisite: CTIS 151. Aut (S. Genç) Spr (N. Şahin Özcöl)

CTIS 256 Web Technologies II
The aim of this course is to enable students to develop information systems using web as the main interface between users and the system. To do this: all necessary information, design techniques and the concepts will be taught such as PHP my SQL, ASP, JSP e-commerce concepts, XML. (Three hours lecture in lab.) Credit units: 3 ECTS Credit Units: 5, Prerequisite: CTIS 255. Aut (S. Genç) Spr (N. Şahin Özcöl)

CTIS 259 Database Management Systems and Applications
Fundamentals of SQL with practice in Oracle Database Management System, Views, Constraints, Triggers, Transaction Processing, Entity-Relationship (E-R) Data Model, Relational Data Model, Relational Schema, Functional Dependency and Normalization, Logical Database Design, Relational Algebra, Concurrency Control. Students will have rights to take "Oracle Database SQL Expert" or "Oracle Database 11g: SQL Fundamentals P' exams as part of the Oracle Academy membership. Credit units: 5 ECTS Credit Units: 7, Prerequisite: CTIS 152. Aut (F. Yüriten) Spr (F. Yüriten)

CTIS 261 Computer Networks I

CTIS 262 Computer Networks II

CTIS 264 Computer Algorithms
The course focuses on algorithms and problem solving techniques. Major concepts include; sorting, searching, divide and conquer algorithms, dynamic programming, greedy algorithms, graph algorithms, cryptographic algorithms, string matching algorithms. Basics of analysis of algorithms. Main aim is to improve students' analytical thinking skills. (Three hours lecture.) Credit units: 3 ECTS Credit Units: 6, Prerequisite: CTIS 152 and CTIS 163. Aut (M. Akgül, D. Albayrak) Spr (D. Albayrak)

CTIS 290 Summer Training
This program provides the students with their first exposure to the workplace, in a supervised setting. Summer Training assignments are scheduled and monitored through the school's Industrial Training Office. The main objective is for the student to observe an information systems institution first-hand, and obtain practical real-life experience. This training, which comprises a minimum of forty (40) working days, is undertaken during the
summer break following completion of the second academic year. A training report has to be submitted. Credit units: None ECTS Credit Units: None. Aut (E. Uçar) Spr (E. Uçar)

**CTIS 310  Industrial Training Project**
The student will spend one semester working in industry. This provides the student with an opportunity to apply his present knowledge in a real-life environment and to observe, document and evaluate the operations of a computing department. The student will be required to present an analysis of his experience, identifying the factors contributing to the success and/or problems of the department. The student’s contributions to the department during his internship will be evaluated by his manager. Credit units: 4 ECTS Credit Units: 30, Prerequisite: CTIS 290. Aut (E. Uçar) Spr (B. Akporay, D. Albayrak, Ö. Albayrak, S. A. Ali, S. Genç, B. Liman, V. Polat, O. Say, N. Şahin Özçelik, S. Tın, E. Uçar, H. M. Yıldırım, F. Yürtüen)

**CTIS 313  Money Management**
The course covers the usage and storage of money and the management of it; in order to avoid unnecessary losses. In the first part of the course the price and different forms of money will be analyzed, where as in the second part foreign currency markets and management will be included in the discussions to be able to complete the money management process. (Three hours lecture.) Credit units: 3 ECTS Credit Units: 5.

**CTIS 359  Principles of Software Engineering**
Software processes: requirements analysis and specification, design, development and testing methodologies, and software lifecycle. Importance of planning and managing the software processes. Software modeling, review of Unified Modeling Language and CASE technology. Software development, planning, management and engineering standards such as ISO/IEC 12207 and EIA/IEEE J-STD-016-1995. An in-depth introduction to the concepts and techniques for software development. Experience team-oriented software engineering through conventional software life cycle models via small-scale software project. (Three hours lecture, one hour lab.) Credit units: 3 ECTS Credit Units: 7, Prerequisite: CTIS 251 and CTIS 259. Aut (B. Akporay)

**CTIS 363  Ethical and Social Issues in Information Systems**
Main objectives of the course are basic understanding of IT history, awareness of current issues, and familiarity with ethics. The course provides an overview of ethical theories and related problems with privacy, networking, security and reliability. The course presents issues such as social networking, government surveillance, privacy, security, and intellectual property from all points of view. The content challenges students to think critically and enables them to draw their own conclusion, and balance conflicting objections which ultimately prepares them to become responsible and ethical professional as well as individual users of future technologies. (Three hours lecture.) Credit units: 3 ECTS Credit Units: 7, Prerequisite: CTIS 165. Aut (M. Akgül) Spr (R. Ayfer)

**CTIS 411  Senior Project I**
This is a capstone course, and it complements the theory thought in "CTIS359 Principles of Software Engineering" and "CTIS415 Advanced Software Engineering". It is the first part of a yearlong senior team project. The students work as teams on assigned projects to apply software engineering practices and to develop communications skills. This course covers the initial phases of the software development lifecycle which are initial project plan, requirements specification, and software design. Teams also develop a product prototype and present it before continuing to second part of this course which is "CTIS456 Senior Project II". Credit units: 2 ECTS Credit Units: 5, Prerequisite: CTIS 290 and CTIS 359. Aut (B. Akporay) Spr (B. Akporay)

**CTIS 415  Advanced Software Engineering**
This course has an in-depth coverage of concepts taught in "CTIS359 Principles of Software Engineering". It introduces contemporary and advanced software engineering systems and techniques. This course considers developing software systems by using several examples. Credit units: 2 ECTS Credit Units: 4, Prerequisite: CTIS 290 and CTIS 359. Aut (B. Akporay) Spr (B. Akporay)

**CTIS 456  Senior Project II**
This is a capstone course, and it complements the theory thought in "CTIS359 Principles of Software Engineering" and "CTIS415 Advanced Software Engineering". It is the second part of a yearlong senior team project. The students work as teams on assigned projects to apply software engineering practices and to develop communications skills. This course covers the later phases of the software development lifecycle which are implementation and testing. Credit units: 4 ECTS Credit Units: 9, Prerequisite: CTIS 411. Spr (Staff)

**CTIS 457  Survey in Information Technologies**
During this first semester course student teams will perform advanced research on related IT and/or IS topics mainly focusing on new trends and technologies. They need to consult with at least 5 related contemporary establishments on their specific research area. At the end of the semester, they need to prepare a research thesis and make a presentation. Some of the topics are Mobile Communication, IS security, E-learning, Distance Education and Outsourcing. (Two hours lecture.) Credit units: 2 ECTS Credit Units: 4, Prerequisite: CTIS 310. Aut (D. Albayrak, O. Albayrak) Spr (O. Albayrak)
CTIS 458  Seminars in Information Systems
During this final semester course, managerial level guest speakers from the IT industry, provide weekly seminars. Each team of 3-4 students, get prepared for the topics for two weeks before the seminar date. At the end of each seminar, Q-A sessions and panel discussions are held. Main aim of the course is to enable senior level students get familiar with latest technologies and hot topics as well as to get acquainted with the corporates and organizations in the IT and Software Industry. (Two hours lecture) Credit units: 2 ECTS Credit Units: 4. Spr (N. Şahin Özcelik, E. Uçar)

CTIS 483  Database Administration
Oracle Database Architecture, Database Installation, Creating Database Using DBCA, Database Instances, ASM Instances, Network Environment, Storage Structures, User Security, Concurrency Control Mechanisms, Database Auditing and Maintenance, Performance Management, Backup and Recovery Concepts, Moving Data, Database Restart. Whole content will be explained in Oracle environment and students will have rights to take "Oracle Database 11g: Administration I" exam as part of the Oracle Academy membership, and be able to take "Oracle Database 11g Administrator Certified Associate" (OCA). Credit units: 3 ECTS Credit Units: 6, Prerequisite: CTIS 259 and CTIS 310. Spr (F. Yünuşen)

CTIS 484  Advanced Topics in Programming
Object oriented programming concepts using C++ programming language. Developing applications for processors with parallel computing resources. Fundamental concepts and in-depth knowledge about parallel, distributed, grid and cloud computing programming principles, programming GPUs (CUDA), communication models, memory utilization and limitations of these processors. Credit units: 3 ECTS Credit Units: 6, Prerequisite: CTIS 251 and CTIS 310. Aut (O. Say)

CTIS 485  Information Storage and Management
The objective of this course is to introduce students with essential concepts in information storage and management technologies. The course will cover topics in storage systems, storage networking and virtualization technologies, business continuity and storage security. A successful student is expected to understand and visualize the working mechanism behind commonly used storage systems and the underlying protocols, different storage networking technologies and their pros and cons, the importance of information availability and the need for security to protect data. (Three hours lecture) Credit units: 3 ECTS Credit Units: 6, Prerequisite: CTIS 310. Spr (S. A. Ali)

CTIS 486  Linux System Administration
The course covers practical issues in Linux system administration. Main modules are installation, software management, and user management issues. Linux shell utilities, file system management, core system daemon, kernel and compilation concepts are studied in detail. Lectures are held in laboratory environment where each student has a chance to apply the modules simultaneously through online systems. One of the main concentrations of the course is on networking. Thus, TCP/IP & network configuration, local & network security will be studied with applications of Internet protocols like HTTP, SMTP, and DNS. (Three hours lecture in lab.) Credit units: 3 ECTS Credit Units: 6, Prerequisite: CTIS 166 and CTIS 310.

CTIS 487  Mobile Application Development
The aim of this course to introduce students with both the technical and business related challenges posed by current mobile devices and wireless communications. On successful completion of this course a student will be able to compare and select software tools and APIs to develop mobile applications while considering their popularity, scope and limitations. A successful student will be able to develop and test realistic applications for mobile devices. (Four hours lecture, two hours lab.) Credit units: 4 ECTS Credit Units: 7, Prerequisite: CTIS 251. Aut (S. A. Ali, N. Şahin Özcelik)

CTIS 488  Data Analysis
This course will provide an introduction to the important concepts in statistics. The focus throughout the course will be on developing an understanding of the rationale, the correct interpretation, and the appropriate applications of some of the most commonly used statistical techniques. No previous research or statistical knowledge is assumed from the students. The emphasis will be on concepts and applications rather than on computations. Topics include frequency distribution, central tendency, probability of samples, variability, hypothesis testing, ANOVA, correlation and regression analysis can be list as main subject. (Three hours lecture.) Credit units: 3 ECTS Credit Units: 6, Prerequisite: CTIS 310.

CTIS 489  Interactive Computer Graphics Programming
The aim of the course is to provide necessary 2d and 3d programming concepts to create interactive graphics applications such as simulators, computer games, real-time visualization applications using OpenGL API. The topics in the course are video hardware architecture, 2d/3d mathematics, GLUT library, 2d primitive drawing, 2d transformations, 2d animation, 3d object modeling and drawing, 3d transformations, perspective projection, orthogonal projection, hidden surface removal, i/o handling, texture mapping, lighting, alpha blending, special effects such as fogging and particles. All topics are experimented in lab sessions. (Three hours lecture in lab.) Credit units: 3 ECTS Credit Units: 6, Prerequisite: CTIS 310. Spr (S. Genç)
CTIS 491  Software Validation Verification and Testing
Critical role of testing in successful completion of quality software projects inevitably makes it an integral part of software development process. The objective of this course is to provide a framework for understanding Software Validation and Verification concepts, processes and techniques in order for the students to effectively contribute to the testing effort in software development organizations. The course concentrates on software inspections and reviews, requirements tracing, and system and component testing. Test planning, test case design, defect reporting and tracking, and control of testing process are practiced on sample software projects. (Three hours lecture.)  Credit units: 3 ECTS Credit Units: 6, Prerequisite: CTIS 310. Aut (S. Tın)

CTIS 492  Information Systems Outsourcing
The course introduces the students to the fundamental concepts of information systems. These include, management information in organizations, decision support systems, enterprise resource planning, information systems planning, organizing for information system projects, IS project lifecycle models, IS development and maintenance principles, organization, management and control IS. This course will outline the major aspects of outsourcing with a focus on IT and IT-enabled services outsourcing. The course will - in detail - explain the conditions in which outsourcing makes sense and conditions where short term cost gains are offset by long term systemic issues. The course explores both voluntary and involuntary outsourcing for both consumers and producers of IT and IT-enabled services. Variables that impact outsourcing are discussed and the impacts of outsourcing are explored from business as well as social perspectives. (Three hours lecture.) Credit units: 3 ECTS Credit Units: 6, Prerequisite: CTIS 310. Aut (E. Uçar)

CTIS 493  Information Systems Project Management
Project management is the application of knowledge, skills, tools, and techniques to project activities to meet project requirements. IT projects are unique because of rapid changes in technology, required user involvement, various systems development life cycle methodologies, product scope changes, team dynamics, and global teams. This course covers a comprehensive view of the IT project management processes. It introduces the project management discipline and the project management life cycle. It covers the management of project teams and project communications. Project selection, scheduling, and control tools and techniques such as Net Present Value (NPV), Return on Investment (ROI), Work Breakdown Structures (WBS), Critical Path Method (CPM), and Earned Value (EV) management are examined. Project risk, quality, and procurement management are also included. (Three hours lecture.) Credit units: 3 ECTS Credit Units: 6, Prerequisite: CTIS 310. Spr (B. Akporay)

CTIS 494  Software Quality Assurance
The purpose of this course is to provide students a common understanding of software quality assurance. The course aims to arm students with tools, techniques and methodologies of developing robust software. It provides both the theoretical and the practical concepts. The course requires several group project/ case study assignments. Topics include; Software Inspections and Testing, Capability Maturity Model, ISO9000 and SPICE, Software Quality Metrics, The Seven MP Tools, Software QFD and Voice of the Customer, Risk Assessment and Failure Modes and Effects Analysis, Quality Measures and Statistical Methods, Verification and Validation, Testing and Evaluation, Integration, Extension and Maintenance for Trustworthiness. (Three hours lecture.) Credit units: 3 ECTS Credit Units: 6, Prerequisite: CTIS 310. Spr (Ö. Albayrak)

CTIS 496  Data Security in Computing
The course covers theory and practice of computer security, focusing in particular on the security aspects of the computing systems. Access control mechanisms are analyzed together with distributed security model architectures. It surveys cryptographic tools used to provide security, such as shared key encryption (DES, 3DES, AES, etc.), public key encryption, key exchange, and digital signature (Diffie-Hellmann, RSA, DSS, etc.) Besides, it then reviews how these tools are utilized in the internet protocols and applications such as Kerberos, SSL, IPSEC, TLS, and others. Network security issues, such as viruses, intrusion, firewalls, and others will also be covered. (Three hours lecture.) Credit units: 3 ECTS Credit Units: 6, Prerequisite: CTIS 310. Spr (H. M. Vidiarm)

CTIS 497  LAN Switching and Wireless Networks
CTIS 498  Wide Area Networks
TOURISM AND HOTEL MANAGEMENT


TOURISM AND HOTEL MANAGEMENT PROGRAM

Tourism is the fastest growing sector not only in our country, but also in the world. Since the world became a global market, the multi-national corporations are entering into this leading sector to a large extent. Thus students who select Tourism and Hotel Management as their area of specialization will have a chance to follow a curriculum that prepares them for a career both domestically and world-wide.

The practical and theoretical courses have a wide spectrum extending from department specific travel, hotel and food and beverage operations courses to managerial skill development, accounting, finance courses supported with English as teaching medium, second foreign languages, internships and project courses.

CURRICULUM

FIRST YEAR

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<td>PC General Applications I</td>
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<tr>
<td>ENG 101</td>
<td>English and Composition I</td>
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<td>GE 100</td>
<td>Orientation</td>
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<td>THM 163</td>
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<td>World Travel Destinations</td>
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<td>TURK 101</td>
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<td>THM 107</td>
<td>Microeconomics</td>
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<td>THM 164</td>
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<td>THM 167</td>
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<td>THM 168</td>
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<td>TURK 102</td>
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<tr>
<td>GE 250</td>
<td>Collegiate Activities Program I</td>
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<td>THM 205</td>
<td>Macroeconomics</td>
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<td>THM 243</td>
<td>Rooms Division Management</td>
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<td>THM 245</td>
<td>Purchasing and Cost Analysis</td>
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<td>THM 247</td>
<td>Food and Beverage Management</td>
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Spring Semester

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<td>HIST 200</td>
<td>History of Turkey</td>
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<tr>
<td>THM 202</td>
<td>Principles of Management</td>
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<td>THM 242</td>
<td>Social Psychology</td>
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<td>THM 244</td>
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<td>THM 246</td>
<td>Restaurant Service</td>
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<td>THM 252</td>
<td>Tourist Attractions of Turkey</td>
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THIRD YEAR

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<td>THM 309</td>
<td>Principles of Marketing</td>
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<td>THM 313</td>
<td>Hospitality Management Accounting</td>
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<td>THM 323</td>
<td>International Cuisines</td>
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<td>THM 326</td>
<td>Tourism Policies and Sustainability</td>
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<td>THM 348</td>
<td>Service Operations Management</td>
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<td>Restricted Elective</td>
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<td>THM 310</td>
<td>Industrial Training Project</td>
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FOURTH YEAR

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<td>Organizational Behavior</td>
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<td>THM 409</td>
<td>Tourism Law</td>
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<td>THM 415</td>
<td>Finance</td>
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<td>THM 417</td>
<td>Quantitative Decision Techniques</td>
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RESTRICTED ELECTIVES

| GE 471          | Business and Legal Considerations for Technology Startups |
| THM 327         | Event Management                                         |
| THM 391         | Business Forecasting                                     |
| THM 392         | Nutrition and General Health                             |
| THM 396         | Case Studies for Tourism                                 |
| THM 397         | Ethics in Hospitality Industry                           |
| THM 452         | Tourism Planning                                         |
| THM 453         | Total Quality Management                                 |
| THM 454         | Management Behavior and Team Effectiveness               |
| THM 475         | Strategic Marketing for the Hospitality Industry          |
| THM 476         | Research Techniques                                      |
| THM 477         | Planning for Profit                                      |
| THM 478         | Hotel Investment Decision                                |
| THM 482         | Club Management                                          |
| THM 483         | Select Issues in Turkish Tourism                         |
| THM 484         | Case Studies in Applied Marketing                        |
| THM 485         | Hospitality Architecture and Design                       |
| THM 487         | Concept and Design for Food and Beverage Outlets         |
| THM 488         | Eco-Tourism                                              |
| THM 493         | Nutritional Anthropology                                  |

* SECOND FOREIGN LANGUAGE COURSES

One of the following four-semester sequences of courses in Japanese, Chinese, Russian, German, Italian, French or Spanish, offered by the Faculty of Humanities and Letters, can be taken to fulfill the second foreign language requirements:

- Japanese : JAP 111/112/113/114
- Chinese : FRL 165/166/167/168
- French : FRE 111/112/113/114
MINOR PROGRAM

Food and Beverage Management Minor is intended to invite the ones who are interested in the Food and Beverage field. It will cover almost all the related information in the field starting with the fundamentals of nutrition and sanitation. The Minor will give the students both the theoretical and mostly practical knowledge in the Food and Beverage operations so that the students will accumulate food preparation and service knowledge that will be enlarged and enhanced by the cost analysis and management courses.

Health Tests: For THM 244, THM 246 and THM 323 courses each student has to have certain health tests, at the start of the semester, and the results must be appropriate for food and beverage operations. Those with health discrepancies cannot continue. Students attending the minor program need to pay for health test expenses.

Duration, Attendance and Timing: THM 246 and THM 323 Courses start at 08:30 in the morning and last for 6 hours. THM 244 course is organized either in the morning time or afternoon and lasts for 4 hours. For operational courses THM 244, THM 246 and THM 323 attendance and timely arrival of students are extremely important. Students need to follow the special rules related instructors set. Those rules are given to students at the first lecture of the semester. First week of these courses are for orientation, operation starts with the second week. Absenteeism allowances of these courses are also very low and followed strictly, to be announced by instructors. This is due to the fact that "Le Piment Rouge" is accepting guests, like a commercial restaurant.

Uniforms: For THM 244, THM 246 and THM 323 courses: each student has to purchase special uniforms, on their own expenses. Those uniforms are ordered at the start of each semester, and with second week onwards students are required to attend with these uniforms on. This is due to hygiene requirements. Uniforms purchased for THM 244 course are used also for THM 323 course. THM 246 course requires another set of uniforms. Students are provided a changing room and lockers.

Kitchen Facilities: THM 244 and THM 323 courses are practiced in kitchens. Due to operational limitations, each section can accommodate maximum 26 students for THM 244 course and 12 students for THM 323 course. For THM 246 course the enrollment limit is 12 students.

Prerequisite Courses: None

CURRICULUM

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<td>THM 244 Food Production Techniques</td>
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<td>THM 245 Purchasing and Cost Analysis</td>
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COURSE DESCRIPTIONS

THM 105 Introduction to Business
Designed to give an overall view to all the relevant functions of a business. Emphasizes the integrational aspects of the entire business organization and paves the way for functional area knowledge to be developed. Helps to understand and to conceptualize the nature of business, and gives the necessary orientation to the areas that will require functional specialization later on. Credit units: 3 ECTS Credit Units: 5. Aut (G. Karamulfağlı, M. Siyahhan, E. Şenol) Spr (A. Pekcan, M. Siyahhan, E. Şenol)
THM 106 Principles of Accounting
The course introduces the business environment, basic mechanics of record keeping and reporting of financial statement information. The topics covered include the generally accepted accounting principles, the accounting cycle, preparation and reporting of financial statements (balance sheet, income statement, and statement of shareholders’ equity). The course aims to familiarize students with various tools and techniques that are currently used in accounting. A widely used accounting software and Microsoft Excel are used for recording transactions and preparation of financial statements. Credit units: 3 ECTS Credit Units: 5. Aut (H. Çinar) Spr (H. Çinar)

THM 107 Microeconomics
Introduction to basic microeconomic concepts. The course covers demand, supply and market equilibrium, elasticity, consumer choice, market structure, labor market, income distribution and poverty. Credit units: 3 ECTS Credit Units: 5. Aut (Ç . I. Boz) Spr (N. Özkarame Coşkun)

THM 163 Dynamics of Tourism
Focuses on the position of tourism as the world’s largest industry which has led to the widespread acknowledgment of the decisive role it plays in shaping the world. Thus, a global overview of the industry; trends, its socio-cultural and economic impact, motivators, hospitality related services, transportation, intermediaries and attractions are discussed. Credit units: 3 ECTS Credit Units: 5. Aut (G. Karamullaoğlu) Spr (G. Karamullaoğlu)

THM 166 Health Studies
The course provides students with the knowledge and skills necessary to help domestic and international tourists whose first-aid problems have to be addressed promptly and properly. It enhances students’ comprehension of theoretical and practical concepts and aspects of health issues routinely encountered in the tourism industry worldwide. Credit units: 1 ECTS Credit Units: 1. Aut (A. N. Örner) Spr (A. N. Örner)

THM 167 Behavior and Etiquette
The purpose of this course is to provide basic knowledge and practical guidelines on everyday manners and common courtesies. It also aims at giving a perspective for proper behavior and etiquette acceptable in social and business situations. To sensitize students to the rules of protocol and dynamics of contrasting cultures is also another aim of this course. Credit units: 1 ECTS Credit Units: 1. Aut (A. Ünal) Spr (A. Ünal)

THM 168 Nutrition and Sanitation
This course consists of two parts, Nutrition and Sanitation. The course provides information in response to today’s concern over adequate sanitation and health. It also provides information about food, nutrients and health interrelations, common nutritional problems and their prevention by means of proper nutritional interventions. Credit units: 3 ECTS Credit Units: 5. Aut (A. N. Örner) Spr (A. N. Örner)

THM 172 World Travel Destinations
Provides geographic knowledge for effective and efficient service in the travel industry. Terms and concepts that are important to a travel counselor are studied. Also, the geographic resources and man-made attractions that function as a tourist destination, and the developments taking place on a world-wide basis are examined. Credit units: 3 ECTS Credit Units: 5. Aut (E. Gürel) Spr (İ. Boz)

THM 202 Principles of Management
Provides insights into the basic managerial functions, primarily planning and decision making, organizing, leading and controlling. The objective of the course is to encourage students to investigate and learn unified, universal, valid principles and theories applicable. Credit units: 3 ECTS Credit Units: 5. Aut (A. Pekcan) Spr (A. Pekcan)

THM 205 Macroeconomics
The basic macroeconomic concepts of growth rate, inflation rate and unemployment rate are the main topics of the course. Macroeconomic equilibrium, fiscal policy, monetary policy and central banking, foreign trade and international institutions are discussed. Issues on Turkish and world economy are also explained. Credit units: 3 ECTS Credit Units: 5. Aut (N. Özkarame Coşkun) Spr (N. Özkarame Coşkun)

THM 242 Social Psychology
Includes some of the fundamental components of the study of tourism from a social-psychological standpoint. The course will study tourism along two dimensions: by an understanding of the social, organizational and the community contexts of tourism. Credit units: 3 ECTS Credit Units: 5. Aut (A. B. Collins) Spr (A. B. Collins)

THM 243 Rooms Division Management
The course is intended to examine the two basic functions of rooms division management: housekeeping and front office operations. The course is also aimed at helping students acquire the basic skills necessary for the operations and other management analysis. Students will be introduced to the concepts and techniques of rooms...
sales forecasting, revenue budgeting, analysis of rooms sales and profit, break-even analysis, rooms pricing and yield management. Credit units: 3 ECTS Credit Units: 5. Aut (J. B. Chafra) Spr (J. B. Chafra)

THM 244 Food Production Techniques
The course introduces students to the most common tools and equipment and basic methods used in the preparation of foods. These are the standards used in international kitchens of the hotel industry. Students will be introduced to the various products used with common basic preparation methods; use and interpretation of recipes, as well as planning menus considering the traditional organization of medium to large kitchen operations. Credit units: 2 ECTS Credit Units: 2. Aut (O. Benice) Spr (O. Benice)

THM 245 Purchasing and Cost Analysis
Provides students with skills and knowledge for effective management of purchasing and cost analysis in a hotel and presents the responsibilities of a purchaser and a food and beverage controller. The course also covers determination of standards, development of operating budget and cost-volume-profit analysis, as well as basic operating activities, menu planning, purchasing, receiving, storing, issuing, production and serving. In addition, the course provides the knowledge required to prepare food and beverage reconciliation reports. Credit units: 3 ECTS Credit Units: 5. Aut (E. Şenol) Spr (E. Şenol)

THM 246 Restaurant Service
Provides students with practical knowledge for effective management of food and beverage service. Students will have experience work in a fine dining room and will have theoretical knowledge before the service starts. Credit units: 3 ECTS Credit Units: 5. Aut (A. Ünal) Spr (A. Ünal)

THM 247 Food and Beverage Management
This course will provide the student with the knowledge for budgeting and effective management of food service operations, while presenting the basic service principles and highlighting the importance of meeting and exceeding the needs of the guest. Major topics include restaurant marketing, menu analysis, menu pricing strategies and guest relations. Credit units: 3 ECTS Credit Units: 5. Aut (O. Benice) Spr (O. Benice)

THM 252 Tourist Attractions of Turkey
Discusses regional distribution of touristic activities with an emphasis on the natural, historical and archaeological attractions along with their characteristics as tourism products in Turkey. Credit units: 3 ECTS Credit Units: 5. Aut (G. Karamullaoğlu) Spr (I. Boz)

THM 258 Principles of Economics
Basic principles of micro and macroeconomics. Important highlights are, background, terminology, concepts, procedures in microeconomic analysis. Problem solving with microeconomic units. National output, national income, money, monetary institutions, unemployment, growth and international monetary systems. Credit units: 3 ECTS Credit Units: 5. Aut (E. Gürel) Spr (E. Gürel)

THM 269 Co-Op Management Application
An integration of hospitality work experience and classroom instruction along with the practical management application opportunities in the hospitality industry. Completion of 40 work hours in a semester and attainment of on-the-job training goals are required. Hospitality position to be secured prior to the start of the semester. Credit units: None ECTS Credit Units: None. Aut (J. B. Chafra) Spr (J. B. Chafra)

THM 300 Summer Training
This program provides students with an intensive exposure to the tourism workplace. Assignments are scheduled and monitored through the school's Industrial Training Office. The main objective is to obtain practical, real-life experience. The training program, comprised of a minimum of sixty (60) work days, takes place during the summer period. Credit units: None ECTS Credit Units: None. Aut (J. B. Chafra) Spr (J. B. Chafra)

THM 301 Human Resources Management
Designed to help students understand and work with human resources managers and also deal directly and successfully with human resources issues themselves. The course focuses on hiring, training and supervision of employees. Credit units: 3 ECTS Credit Units: 5. Aut (A. B. Collins) Spr (A. B. Collins)

THM 309 Principles of Marketing
Provides an overview of the evolution of marketing, identifies the basic characteristics of consumer and individual market, explains target marketing providing insight into the four elements of the marketing mix; product concepts, marketing channel, promotion planning and international marketing. Credit units: 3 ECTS Credit Units: 5. Aut (M. Siyahhan) Spr (E. Gürel)

THM 310 Industrial Training Project
Students spend one full semester working in the industry. This provides the students with an opportunity to apply their present knowledge in a real-life environment, and to observe, document and evaluate the operations of a department. During their internship the student will be required to prepare a report of their experience, identifying
the factors contributing to the success and/or problems of the department. Credit units: 4 ECTS Credit Units: 21, Prerequisite: THM 300. Aut (O. Benice, E. Denizci, A. N. Örer, E. Şenol) Spr (O. Benice, A. N. Örer, M. Siyahhan, E. Şenol)

THM 313 Hospitality Management Accounting
The objective of the course is to introduce the students the main issues in management accounting. Special emphasis will be put on decision making and internal control in hospitality industry operations. The principal topics encompasses; responsibility accounting, reporting centers, internal control in hospitality operations, uniform system of accounting for hospitality industry, legal requirements in hospitality and food/beverage operations, asset management for hotels, preparation and reporting of financial statements; income statement, balance sheet and statement of cash flows, methods of financial statements analysis; common size, comparative, budget-actual and ratio analysis, operations budget preparation in Microsoft Excel. Credit units: 3 ECTS Credit Units: 5, Prerequisite: THM 106. Aut (H. Çınar) Spr (H. Çınar)

THM 323 International Cuisines
This practical, hands-on course will enable the students in small groups to work in the a la carte kitchen of the practice restaurant. They will have the opportunity to, using the knowledge gained in food preparation techniques, apply standard recipes, prepare a selection of international dishes for service in the restaurant. Credit units: 4 ECTS Credit Units: 5, Prerequisite: THM 244 or THS 221. Aut (E. Denizci) Spr (E. Denizci)

THM 326 Tourism Policies and Sustainability
This course has three objectives. The first is that since the early 1980s Turkey's mass tourism development is analyzed, and to what extent such development is sustainable or not is debated in the class. Secondly many coastal and cultural tourism destinations in Turkey are analyzed and debated through term research papers. By which to what extent tourism resources are protected and tourism is contributing to the local economy is investigated. It means that sustainable tourism is also searched by destination scale in Turkey. Finally sustainable tourism is also discussed conceptually and theoretically from international perspectives. Credit units: 3 ECTS Credit Units: 5. Aut (Ç. I. Boz) Spr (Ç. I. Boz)

THM 327 Event Management
Events, meetings and conventions have become major activities in world tourism industry. The course first focuses on historic development and importance of meetings and conventions, together with the terminology and classification. Prominent event destinations in the world and their attributes are also discussed. Costing details and operation process of small to medium size events are the final major topic. Credit units: 3 ECTS Credit Units: 5. Aut (G. Karamullaoğlu) Spr (G. Karamullaoğlu)

THM 348 Service Operations Management
This course explores the dimensions of successful service firms. It prepares students for enlightened management and suggests creative entrepreneurial opportunities. Moreover, it approaches service management from an integrated viewpoint that blends operations, marketing, strategy, information technology and organizational issues while keeping an eye on customer satisfaction. Credit units: 3 ECTS Credit Units: 5. Aut (J. B. Chafra) Spr (J. B. Chafra)

THM 392 Nutrition and General Health
The goal of the course is to reveal the fascination of the science of nutrition and share the fun and excitement of nutrition with students and also aims students to understand how the scientific facts apply to people's health in daily life. Credit units: 3 ECTS Credit Units: 5. Aut (A. N. Örer) Spr (A. N. Örer)

THM 403 Organizational Behavior
As an eclectic field of study, integrating the behavioral sciences; psychology, sociology, anthropology etc., into the study of human behavior within organizations, the course focuses on the analytical approach to studying organizational behavior and on increasing student's ability to think in analytical terms. The dilemma of organizational behavior is to attempt to increase the predictability of human behavior. Credit units: 3 ECTS Credit Units: 5. Aut (A. Pekcan) Spr (A. Pekcan)

THM 409 Tourism Law
All facets of the tourism industry are subject to laws and regulations that govern their operations. The course reviews these regulations as they pertain to such areas as: tourism organizations, investments and operations; the travel industry; and the tourist. This course is conducted in Turkish. International students may elect to follow a course of project based tutoring, covering the legal aspects of international tourism. Credit units: 3 ECTS Credit Units: 5. Aut (M. Siyahhan) Spr (M. Siyahhan)

THM 415 Finance
This course introduces basic techniques and concepts necessary to effectively manage the limited financial resources while evaluating various investment opportunities. In this regard, students will learn the 4 principles of finance and apply them to value securities, decide whether to accept or reject projects, and forecast streams of cash flows. Moreover, through intensive applications, this course aims to instill the idea that finance is all around
us and that financial decisions (whatever complex they might be perceived) stem from simple rational, common sense sets of basics. **Credit units: 3 ECTS Credit Units: 5. Aut (J. B. Chafra) Spr (J. B. Chafra)**

**THM 417 Quantitative Decision Techniques**

Scales of measurement, empirical distributions; property measures of distributions; probability concepts; theoretical distributions; sampling; interval estimation; hypothesis testing; correlation and simple and multiple regression analysis; analysis of variance; other methods of multivariate analysis. **Credit units: 3 ECTS Credit Units: 5. Aut (N. Özkaramete Coşkun) Spr (N. Özkaramete Coşkun)**

**THM 418 Senior Project**

Students are required to prepare a project on a given subject matter. The aim of the course is to enrich their theoretical and practical refinement, and investigate new trends in the hotel and travel industry. **Credit units: 3 ECTS Credit Units: 5. Aut (J. B. Chafra) Spr (J. B. Chafra)**

**THM 419 Tourism Management Applications**

Overviews management challenges in the hospitality and tourism industry, and the quantitative methods of internal control and decision making processes world-wide. The course explores practical applications of general management theory in the context of the tourism and hospitality industry. The topics encompasses; Strategic Management, corporate, business and functional strategies; renewal, growth and stability strategies, Growth Strategies of Hospitality Firms; strategic alliances, franchising, management agreement, acquisition, consortia, joint venture, diversification, Methods of appraisal of lodging facilities, Time studies, work sampling, staff scheduling in hospitality properties, Revenue management trends in hotels and airlines, Property operations management in hotels and environmental responsibility of hoteliers, Feasibility study (in Microsoft Excel) market profile analysis and financial analysis, different approaches in management. **Credit units: 3 ECTS Credit Units: 5. Aut (H. Çınar) Spr (H. Çınar)**

**THM 420 Seminars on Tourism Industry**

Exposes students to selected facets and faces of tourism, mostly by lectures of guest speakers from different areas of the tourism industry. **Credit units: 2 ECTS Credit Units: 2. Aut (G. Karamullağlı) Spr (G. Karamullağlı)**

**THM 423 Tourism Economics**

This course has three objectives. First is that Turkey’s domestic, outbound and inbound tourism are analyzed in order to see the industry and tourist profiles. Secondly how tourism industry is contributing to the national economy of Turkey is analyzed in terms of income, employment and balance of payment. In this respect the Canadian tourism satellite accounts are analyzed in detail in order to see the most developed research methodologies in the world on tourism economics. Finally theoretical aspects of tourism economics, particularly microeconomics aspects, are analyzed. **Credit units: 3 ECTS Credit Units: 5. Prerequisite: THM 107 and THM 205. Aut (İ. Boz) Spr (İ. Boz)**

**THM 425 Tourism Planning**

This course is designed to teach tourism planning as a step of development in a particular tourism destination. At the beginning the stages of resort type of tourism planning is explained theoretically. Then the students are expected to learn the experiences of tourism development plans in general, but Turkey’s experiences in particular. **Credit units: 3 ECTS Credit Units: 5.**

**THM 454 Management Behavior and Team Effectiveness**

Exposes students to varied styles of management types in real world samples, the pros. and cons. of different cultural effects of managing companies combined with increasing the effectiveness of workers forming groups of staff taking responsibilities to carry out the jobs. **Credit units: 3 ECTS Credit Units: 5.**

**THM 475 Strategic Marketing for the Hospitality Industry**

The course intends to present the strategies of management of the marketing function, the preparation of internal and external analyses, objectives strategies, action plans, and controls to develop and maintain a strategic fit between the organization’s goals and capabilities/resources and its changing marketing opportunities. Thus, to provide guidance to the development and preparation of strategic planning of any hospitality operation. **Credit units: 3 ECTS Credit Units: 5. Aut (E. Gürel)**

**THM 476 Research Techniques**

Definition and main fundamentals of science, fundamentals of research, kinds of research. Steps in research process. Determination of methodology, selection of data collection techniques, analysis techniques and reporting phase. **Credit units: 3 ECTS Credit Units: 5. Aut (A. B. Collins) Spr (A. B. Collins)**
THM 487  **Concept and Design for Food and Beverage Outlets**  
This course will provide the student with the basic knowledge for developing concepts for fine dining restaurants, cafes, fast food units and cafeterias as well as choosing a good location, designing the interior and exterior of the restaurant, equipping the kitchen and the dining room and managing the pre-opening and opening phases.  
*Credit units: 3 ECTS Credit Units: 5.*

THM 493  **Nutritional Anthropology**  
Anthropology shares much in common with other fields that study humans and their interaction with the natural world, including sociology, geology, geography, biology, nutrition and psychology. This approach of the understanding culture and food relations in human population grows out of the tradition of holism in anthropology. This course will inform students on eating habits and kitchen culture through history. Based on assigned readings, case studies and presentations will be used as centerpieces for informing students and simulating discussion on the complex dynamics of culinary arts and culture of different societies in the history.  
*Credit units: 3 ECTS Credit Units: 5.*  
(A. N. Örner)  
(A. N. Örner)
SCHOOL OF ENGLISH LANGUAGE

John O'Dwyer, Ph.D., Director

Bilkent University School of English Language (BUSEL) has two programs: the English Language Preparatory Program, and the Faculty Academic English program. The former program prepares students to meet the English language requirements for study in the different faculties and schools of Bilkent University. The latter program provides credit bearing courses in English for Academic Purposes to the students in the faculties and schools once they have met the English language requirements for study in their chosen fields.

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Dilek Ethemer, Instructor

Sibel Evliyagil, Instructor
M.A., Management in Education, Bilkent University, 2011.

Özge Ezici Çetin, Instructor

Çiğdem Fıçı, Instructor (on leave)
M.A., Management in Education, Bilkent University, 2012.

Claire Firat, Instructor

Jonathan Patrick Fiteni, Instructor

Nicola Jacqueline Fordham, Instructor

Emine Geçgil, Instructor
M.Sc., English Language Teaching, Hacettepe University, 2007.

Esma Gezgiç Güran, Instructor

Julia Goggin, Instructor
B.S., Geography and Sociology, University College, Dublin, 1981.

Birgül Gülener, Instructor
M.A., Management in Education, Bilkent University, 2006.

Müge Gülser, Instructor

Zeynep Gültekin, Instructor
B.A., Translation and Interpretation, Boğaziçi University, 2007.

Gamze Güner, Instructor

Ayşegül Güney, Instructor
B.A., American Culture & Literature, Bilkent University, 2012.

Sabriye Gür, Instructor

Saliha Gürbüzdal, Instructor

Merve Gürel, Instructor
B.A., American Language and Literature, Hacettepe University, 2008.

Aysen Güven, Instructor

Gülner Güven, Instructor
Hakan Güven, Instructor

Hatice İlkınur Halıcı Yılmaz, Instructor

Annelise Kay Hein, Instructor

Steven Hobson, Instructor

Christopher John Hunt, Instructor

Paul Hurley, Instructor
B.A., Humanities (English Literature and Spanish), Thames Valley University, 1994.

İpek Hıyüklü, Instructor
B.A., American Culture & Literature, Başkent University, 2011.

Gökçen İşık, Instructor

Semih İrfaner, Instructor
Ph.D., Educational Management, Hacettepe University, 2009.

Aynur Kadıoğlu, Instructor
M.A., English and American Literature, Ruhr University, 1997.

Funda Kamanlı, Instructor

Güleyse Kansu, Instructor
B.A., English Language Teaching, Middle East Technical University, 2010.

Elif Kantarcıoğlu, Instructor

Serap Katan, Instructor

Elif Kaya, Instructor

Sema Kaya, Instructor

İlklil Kaya Yıldırım, Instructor

Oya Kayaalp, Instructor
B.A., English Language and Literature, Ankara University, 1990.

Sema Keşkekçi, Instructor

Meral Kırca, Instructor
B.A., Philosophy, Middle East Technical University, 1988.

Zeynep Kireçci, Instructor

Resmiye Koç, Instructor

Anna Korsunska, Instructor
Suzan Kotan, Instructor

Shayna Nicole Kozuch, Instructor
B.A., Political Science, McGill University, 2005.

Müge Köksoy, Instructor

Seçil Kuka, Instructor
B.A., English Language Teaching, Middle East Technical University, 2011.

Sevil Kultufan Kılç, Instructor (on leave)

Nihal Kurtay, Instructor

Hülya Kurugöl, Instructor

Tuğba Küçük, Instructor
M.S., Curriculum and Instruction, Middle East Technical University, 2009.

Marinus Hendrik Johanne Langbrook, Instructor

Robert Lee Lockwood, Instructor
B.Sc., Counseling Psychology, Torroa Falls College, 2005.

Robert McNamara Loomis, Instructor
M.A., Middle Eastern Studies, University of Chicago, 2011.

Patrick Benedict Lyons, Instructor

Laurel Ann MacLean, Instructor
B.A., Sociology, Bishop’s University, 2002.

Gökçe Mandalı, Instructor
M.A., Management in Education, Bilkent University, 2012.

Vanessa McDonagh, Instructor

Mark McLaughlin, Instructor

Hande İşıl Mengü, Instructor
Ph.D., English Language Teaching, Hacettepe University, 2005.

Bürin Menküre-Çen, Instructor
M.A., English Literature, Middle East Technical University, 1997.

Özlem Mert Akkaya, Instructor

Sara Kate Morrison Süber, Instructor

Fatma Zerrin Mullaoglu, Instructor

Hasan Mullaoglu, Instructor
B.A., English Language and Literature, Hacettepe University, 1987.

Marci Nelson Özer, Instructor
John O’Dwyer, Assistant Professor
Ph.D., Curriculum and Project-Evaluation, University of Surrey, 2005.

İlkay Orğan, Instructor

Olivia Ashley Ortega, Instructor

Yan Trefor Overfield Shaw, Instructor
M.A., Post-1900 Literatures, Theories & Cultures, University of Manchester, 2009.

Ümrân Ölmез Board, Instructor (on leave)

Gamze Öncül, Instructor
Ph.D., English Language Teaching, Hacettepe University, 2005.

Pınar Esma Önkol, Instructor
Ph.D., Educational Sciences, Middle East Technical University, 2011.

Ümüs Gaye Özarslan, Instructor
M.A., Teaching English to Speakers of Other Languages, Minnesota State University, 2006.

Seda Özdoğan, Instructor

Zeynep Özker Vural, Instructor

Elif Hande Özer, Instructor

Selin Özer, Instructor

Ayşe Funda Özeski, Instructor

Suzan Özgelen, Instructor

Olcay Özgen, Instructor

Kamile Özkartal, Instructor

Ayşe Özmen Özdemir, Instructor

Figen Özsoy Görgülü, Instructor

Tülay Özyurt Erkan, Instructor

Nuran Pekedis, Instructor
B.A., English Language & Literature, Istanbul University, 2012.

Ceyda Pekşen, Instructor
B.A., English Language and Literature, Hacettepe University, 2007.

Philip Poole, Instructor

Jennifer Nicole Powell, Instructor
Christy Michelle Randl, Instructor

Rebecca Ann Reichel, Instructor

Nazmiye Aslı Sağ, Instructor

Aysenur Sağdic, Instructor
B.A., English Language Teaching, Middle Eastern Technical University, 2012.

Pınar Sağır, Instructor

Pelin Sakalsız, Instructor (on leave)

Pembe Müşerref Saracoğlu, Instructor

Çiğdem Selim-Dabir, Instructor
M.A., English Language and Literature, Ankara University, 1996.

Nadia Victoria Sepanji, Instructor

Semih Sert, Instructor
Ph.D., Education, Middle East Technical University, 2008.

Hülya Severgün, Instructor
B.A., English Language Teaching, Middle East Technical University, 2009.

Bryan Patrick Sheehan, Instructor

Valerie Moira Sherwood, Instructor

Katherine Skipper, Instructor
M.S., Teaching English to Speakers of Other Languages, University of Southern California, 2011.

David Jonathan Slattery, Instructor
M.A., English Language & Literature, Mary Immaculate College, 2013.

Katie Marie Smyth, Instructor
B.A., Modern Languages (French & Irish), National University of Ireland Galway, 2011.

Pauline Solomon, Instructor

Laura Adele Soracco, Instructor

Erüns Soylu, Instructor
M.A., Counseling and Guidance, Hacettepe University, 1983.

Elif Sönmez Kaplan, Instructor

Kristin Edward Steele, Instructor
M.A., English Language Teaching and Applied Linguistics, King’s College London, 2011.

Peter Paul Stephan, Instructor
Ph.D., British Literature, Suny at Stony Brook, 1996.

Canan Suyolcu, Instructor

Halime Feyza Sütcü, Instructor
B.A., Foreign Language Education, Middle East Technical University, 2011.
Deniz Şahinbaş Şen, Instructor  

Merve Şanal, Instructor  
B.A., English Language Teaching, Gazi University, 2010.

Seçil Şanlı, Instructor  

Elif Şen, Instructor  
Ph.D., English Language Teaching, Middle East Technical University, 2002. English language 
teacher training, curriculum development, discourse analysis.

Sera Suzan Şengil, Instructor  
B.A., American Culture & Literature, Bilkent University, 2008.

Lorie Marie Tan, Instructor  

Bengisu Tanrıverdi Akalın, Instructor  

Meltem Tarhan, Instructor  

Özgür Taşkesen, Instructor  

Özlem Terzioğlu, Instructor  

Mukadder Tezer, Instructor  
B.A., English Language Teaching, Hacettepe University, 2010.

Carole Thomas, Instructor  
bridge University, 1996.

Timothy Mark Thurston, Instructor  
B.A., Literature and Philosophy, University of East Anglia, 1986.

Ronald Dean Tickfer, Instructor  

Sevtap Tınçer, Instructor  
B.A., English Language Teaching, Middle East Technical University, 1991.

Şeyma Toker, Instructor  
B.A., Foreign Language Education, Middle East Technical University, 2013.

Burcu Torun, Instructor  

Muzaffer Tunca, Instructor  

Özlem Sydney Turgut, Instructor  

Emel Turğut, Instructor  

Robin Harry Mark Turner, Instructor  

Esra Tünay, Instructor (on leave)  

Gizem Türkcan, Instructor  
M.A., Human Resources Development in Education., Middle East Technical University, 2008.
Gülnur Uğuz, Instructor
Cahit Uluğ, Instructor
Behiye Fisun Unsworth, Instructor
Aysenur Deniz Urso, Instructor
B.A., Psychology, Laurentian University, 2002.
Gökçen Uyaroğlu, Instructor
Deniz Uzun, Instructor
B.A., English Language Teaching, Middle East Technical University, 2010.
Gülçin Üge, Instructor
B.A., English Language Teaching, Middle East Technical University, 2009.
Ayça Üner, Instructor
Suphi Burak Üskent, Instructor
M.A., Management in Education, Bilkent University, 2011.
Amber Lynn Vredevoogd, Instructor
Özlem Vural, Instructor
Eilidh Adele Webster, Instructor
M.A., German & Italian, University of St Andrews, 2008.
Allison Jean Weir, Instructor
Ph.D., Classics, University of St. Andrews, 2013.
Müştağ Yağuş, Instructor
M.A., English Language and Literature, Hacettepe University, 1977.
Efe Burak Yakar, Instructor
Clare Yalçın, Instructor
Bilge İşıl Yazıcı, Instructor
Yeşim Yeloğlu, Instructor
M.A., English Language Teaching, Middle East Technical University, 2005.
Nilüfer Yeşil, Instructor
Nurdan Yeşil, Instructor
Pelin Yetkin, Instructor (on leave)
Fatma Gül Yıldırım, Instructor
Serap Yıldırım Varol, Instructor
Halime Yıldız, Instructor  

Ada Pelin Yılmaz, Instructor  

Zeliha Yılmaz, Instructor  

Gülay Yiğit, Instructor  

Shaun Anthony James Young, Instructor  

Hatice Yurtman, Instructor  
B.A., English Language Teaching, Middle Eastern Technical University, 2012.

Bengü Yurtseven, Instructor  
M.Sc., English Language Teaching, Middle East Technical University, 2004.

Ahu Yüceer, Instructor  

Pelin Yücel, Instructor  
B.A., English Language and Literature, Bilkent University, 2006.

Ayşe Deniz Yüzbir Gürgen, Instructor  

Emine Zafer, Instructor  

Özlem Zengin Ünal, Instructor  
B.A., English Language Teaching, Hacettepe University, 2010.
The medium of instruction at Bilkent University is English. The BUSEL English Language Preparatory Program equips students with the necessary language and study skills for successful entry to and study in their chosen faculties and schools. There is an emphasis on English for Academic Purposes (EAP) in the program as a whole, which recognizes that students need more than just general English in order to be successful in their studies. During their stay in the program students are required to develop the ability to analyze texts and information sources, to hone their critical thinking skills, as well as develop an awareness of their own learning styles and preferences. The program is demanding and requires a full-time commitment on the part of students.

Newly arriving students are required to take the Certificate of Proficiency in English Examination (COPE)* in September. Students who meet the required standards will pass directly into their freshman year. Students whose English does not meet the required standards will be placed in the Preparatory Program courses at different levels based on their results in the COPE exam.

The Preparatory Program consists of five levels (Elementary, Pre-Intermediate, Intermediate, Upper Intermediate, Pre-Faculty) which build on one another. Each level includes the production of a learning portfolio (vocabulary journal, written and spoken outcomes, and homework assignments). The courses are explained below but, in addition to class work, students are expected to attend tutorials, use electronic media for learning, do regular independent study, and produce assignments. Students will be evaluated continuously through achievement tests, learning portfolio assessment and assignments. Those students who have successfully completed the exit level may sit the proficiency test and, if successful, be eligible to enter their freshman year.

**Elementary Level**

This course provides grounding in the English language and equips students with the necessary basic skills essential for work at higher levels. At this level, the development of learners’ reading and listening skills goes hand in hand with the development of their language: the focus is on developing reading skills through an emphasis on accurate grammar and lexis and through texts, short monologues and dialogues related to the everyday contexts and needs of the students. In the development of writing skills the focus is at sentence level on accurate grammar and lexis. As language develops students will be asked to write longer detailed texts, which are of a descriptive and/or narrative nature, on concrete topics relevant to their immediate environment and interests. In speaking, the focus is on producing simple, short utterances which will enable learners to consolidate language learnt. There is also an emphasis on accurate grammar, lexis and pronunciation.

By the end of the level, learners should be able to understand short, simple texts containing high-frequency vocabulary, and identify gist and specific information. They will have developed the basic language to be able to start reading and listening to more detailed texts, narratives, and descriptions at the subsequent level. In writing, learners need to have developed the basic language to be able to start writing longer, simple narratives and more detailed descriptions. In speaking, learners need to have developed the basic language to take part in simple communicative tasks and express basic everyday needs and wants.

**Pre-Intermediate Level**

At Pre-intermediate, the development of learners’ reading skills is still closely linked to the development of their language. Learners will be introduced to texts in the form of narratives and descriptions in everyday contexts that have more detail than at the previous level. In listening learners will be

*4-year Department Students-A pass at (i) FCE/CAE/CPE or (ii) a score of at least 6.5 in IELTS (academic exam), with a minimum of 5.5 scored in every section, or (iii) a score of 550 on TOEFL PBT, with a minimum of 4 on the Test of Written English (TWE) or a score of 80 on TOEFL iBT, with a minimum of 20 scored in every section (Listening, Reading, Speaking, Writing), or (iv) a score of 87 on KPDS/ÜDS allows students the right to enter directly into the departments (ETS students inclusive).
able to listen to short texts to consolidate the language they are being introduced to, as well as to notice new language. At this level, the development of learners’ writing skills is still closely linked to the development of their language. Writing short texts will enable learners to continue consolidating the language they are being introduced to. As their language develops they will be able to write longer and more detailed texts on concrete topics relevant to their immediate environment and interests. The development of learners’ speaking skills is also closely linked to the development of their language. They are expected to already have the basic language to be able to carry out simple spoken tasks at the beginning of this level. As their language develops, they will be able to produce gradually longer and more detailed utterances.

By the end of the level, learners should be able to process and construct overall meaning from longer and more detailed descriptions and narratives. They will have developed the language and basic reading skills to be able to start reading more formal, well-structured and informative texts at the subsequent level. For listening they will be ready to start listening to short well-structured informative talks at the subsequent level. In writing, the learners need to have developed the language to write longer, more detailed narratives and descriptions. It is expected that by producing well constructed stand-alone texts, learners will be prepared for the multi-paragraph format that they will have to deal with at the subsequent level. In speaking, learners should be able to take part in short conversations where they can have a simple exchange of information and also give brief descriptions on familiar topics. This will prepare them for the short oral presentations/talks they will need to give at the subsequent level.

**Intermediate Level**

At this level, learners start to explicitly develop the skills and sub-skills of reading and listening. They are expected to have already built up their language levels and the skill of careful reading and listening to be able to start reading and listening to longer texts that are more academic-like. They will learn how to become better readers through the application of the relevant sub-skills and understanding of text organization, while still continuing to develop/consolidate their language. Learners will learn how to become better listeners through the application of the relevant sub-skills and understanding of text organization, while still continuing to develop and consolidate their language. Learners are expected to have built up their language skills to be able to start producing simple, structured essays with an introduction, development and conclusion. In speaking, learners start to explicitly develop the skills and sub-skills of speaking. They are expected to have already built up their language levels and speaking skills to be able to communicate in simple everyday contexts. At this level learners will learn how to become better speakers through the application of the relevant sub-skills and understanding of how to initiate and maintain conversation. It is also expected that they start becoming more fluent when speaking, and that they develop tolerance for their own errors which do not hinder communication or task achievement.

By the end of the level, learners should be able to construct meaning from informative as well as narrative and descriptive texts. It is expected that exposure to such informative texts will prepare learners for the more academic style of language that they will have to deal with at the subsequent level. In writing learners need to have developed the basic language to be able to write longer narratives, descriptions and informative texts in a simple essay format that are supported with some detail and examples. Learners should be able construct meaning through simple talks, presentations and conversations. This will prepare them for more academic presentations they need to give at the subsequent level.

**Upper Intermediate Level**

At this level, learners will further develop the skills and sub-skills of reading and listening. Learners will be expected to already have the language, the reading and listening skills, and knowledge of text structure and organization to help them start dealing with more complex academic-like texts. Students will be expected to construct meaning from texts in which arguments are put forward
and defended or supported through ideas, as well as through details and examples. At Upper Intermediate, learners are expected to have the language and writing skills, including how to write a good paragraph to put forward and support an argument in a well-structured essay. Learners will have the general English language skills to express themselves confidently but they will need to develop their academic language. At this level learners will learn how to become more confident, intelligible and natural-sounding speakers through the application of the relevant sub-skills and development of meta-cognitive awareness of their own speaking abilities. Learners will be expected to develop an argument and defend or support it through ideas (as well as through details and examples), and structure their presentations using relevant discourse markers, fillers, back-chaining and signposting.

By the end of the level, learners should be able to construct meaning from discursive as well as narrative, descriptive and informative texts, even when they are less-structured. Learners need to have developed the language to be able to write discursive essays that are well-supported. It is expected that by producing such essays, learners will be prepared for the more detailed, complex style of argumentations they will have to deal with at the subsequent level. Learners should be able to enter discussions and conversations on familiar topics with less preparation, and give well-structured oral presentations. This will prepare them for the formal presentations, discussions and debates they will deal with at the subsequent level.

**Pre-Faculty Level**

At Pre-Faculty, learners further refine the skills and sub-skills of reading and listening. Learners will be expected to already have the necessary language, reading and listening skills, and knowledge of text structure and argumentation. At this level they will be expected to construct meaning from texts with different rhetorical purposes in which different relationships have been utilized (i.e. advantage/disadvantage, compare/contrast, problem/solution, cause/effect, reason/result, etc.). At this level, learners are expected to have developed a good working knowledge of topic sentences, thesis statements, paragraphs and the essay structure. Learners will further refine their academic language and writing skills to write a more propositionally complex essay. Learners further develop the skills and sub-skills of speaking. They will be expected to give longer, better-prepared, structured and supported oral presentations which show an awareness of audience. It is expected that learners will continue to develop their academic language and there will also be a focus on non-verbal communication. They are also expected to be able to take part in debates, extended discussions and conversations in a clearly participatory fashion, where they will be expected to develop an argument and defend or support it by taking a stance, clearly expressing their ideas and expanding them logically with examples and justification.

By the end of Pre-Faculty, learners should be able to construct meaning from discursive as well as narrative, descriptive and informative texts, even when they are less-structured with different rhetorical purposes and modes. It is expected that exposure to discursive texts will prepare learners for the academic style of argumentation that they will have to deal with in their faculties and departments. The listening texts used will prepare them for the variety of presentations/lectures/talks/discussions that they will be exposed to in their faculties and departments. Learners should be able to write well-structured, propositionally complex discursive essays that are well-supported. It is expected that by producing such essays, learners will be prepared for the types of academic writing required in their faculties and departments. In speaking learners should be able to take active part in formal/informal discussions, give longer and more structured oral presentations, and engage in debates using appropriate language, register and pronunciation which is intelligible and does not cause undue strain on the listener. This will prepare learners for the more academic style of speaking required in their faculties and departments as well as preparing them to interact naturally with foreign instructors and students.
FACULTY ACADEMIC ENGLISH PROGRAM

FACULTY ACADEMIC ENGLISH PROGRAM

COURSE DESCRIPTIONS

ENG 101 English and Composition I

The central basis of ENG 101 is to introduce students to an academic approach to thinking, reading, speaking and writing in an integrated, meaningful manner such that they are able to apply the skills learnt to their departmental studies. In addition, the ENG 101 course aims to further develop the students’ linguistic accuracy and range in English.


ENG 102 English and Composition II

The central basis of ENG 102 is to consolidate students’ academic approach to thinking, reading, speaking and writing and language usage, as initiated in ENG 101. In addition, the ENG 102 course aims to develop the students’ abilities to synthesise and evaluate information and conduct basic, independent research.

Credit units: 3 ECTS Credit Units: 6, Prerequisite: ELS 101 or ENG 101 or ENG 103. Aut (A. Akçaş, N. Avcıbaşoğlu, E. Bekişoğlu, D. C. Bennett, I. Board, L. M. S. Bruce Özdemir, D. C. Butcher, T. A. Cankatan, M. D. Elwell, T. Esmer, S. Evliyagil, A. Güven, S. Irfaner, A. Kadioğlu, İ. Kaya Yıldırım, S. Keşkekci, R. Koç, B. Menküer-Çeçen, P. Poole, V. M. Sherwood, K. E. Steele, P. P. Stephan, T. M. Thurston, R. H. M. Turner) Spr (Staff)

ENG 117 Advanced English Grammar I

This course is designed specifically to help students to further develop competency in grammar, vocabulary and modes of written expression under timed conditions. In order to improve their self-editing skills, students will keep a portfolio of their written work.

Credit units: 3 ECTS Credit Units: 4. Aut (F. T. Akşit, B. Tanrıverdi Akalın).

ENG 118 Advanced English Grammar II

This course is designed to build on the skills developed in ENG 117, specifically by helping literature students to improve their competency in grammar, vocabulary and modes of written expression under timed conditions. In order to improve their self-editing skills, students will keep a portfolio of their written work.

Credit units: 3 ECTS Credit Units: 4, Prerequisite: ENG 117. Spr (Staff)

ENG 206 Business Communications

The objective of this course is to develop professional communication skills necessary for Business Administration majors as they enter the business world. Coursework includes writing proposals, memos, persuasive letters, and business reports as well as conducting business meetings and presentations through adopting documents to particular needs and audiences via authentic business communication cases.

Credit units: 2 ECTS Credit Units: 5, Prerequisite: ENG 102. Spr (Staff)

ENG 241 Sophomore Academic English I

This course aims to reinforce and develop students’ academic English skills beyond the level reached in the Freshman year. This is done in conjunction with Phil 241, with a particular focus on reading, thinking, writing and speaking about influential social and political philosophy texts.

Credit units: 3 ECTS Credit Units: 5. Aut (Staff)

ENG 312 Introduction to Creative Writing

Based on students’ accumulated knowledge of elements and technical underpinnings of literary genres, this course aims to help students gain a deeper practical and theoretical understanding of their own values and aspirations as writers of English. Students are expected to improve their written expression in terms of style, language, vocabulary and creativity with specific focus on the metaphorical and figurative aspects of language. Taught in a workshop-based environment, the course emphasizes how the process of pre-writing, writing and revision can lead to fiction, poetry and creative non-fiction. Assignments will encourage the creation and revision
of drafts, and will give students the opportunity to experiment, practice, edit/improve their work, and discuss one another’s work in the course forums. Credit units: 3 ECTS Credit Units: 6, Prerequisite: ENG 102 or ENG 118.

ENG 400 Technical and Professional Composition
This course for industrial and electrical engineers will develop technical and professional communication skills. Students will be expected to become competent in writing proposals, technical reports and business letters and in presenting academic and technical papers. The tasks performed as part of the course will mirror the tasks students will be expected to do in their prospective professional lives and in their faculty classes. Credit units: 3 ECTS Credit Units: 6, Prerequisite: ENG 102.

ENG 401 Technical Report Writing and Presentation
The objective of this course is to assist computer engineering students in effectively presenting various types of information in both the written and oral modes. Students will be expected to become competent in writing and organizing technical reports and in effectively presenting academic and technical papers. The tasks performed as part of the course will mirror the tasks students will be expected to do in their prospective professional lives and in their faculty classes. Credit units: 2 ECTS Credit Units: 2, Prerequisite: ENG 102 or ENG 104. Aut (E. Bekişoğlu, A. Bonar, H. Dabir, S. Evliyagil, B. Menkıür-Çeçen, P. E. Onkol) Spr (Staff)

ENG 406 Graduate Writing and Presentation Seminar
ENG 406 is primarily a writing seminar for graduate students. The course will focus on issues of style, voice, logic, grammars, and audience awareness in students’ written work. In addition, students will learn and discuss how to present their papers effectively to an audience of peers. The objective of the course is to develop in students a scholarly identity within the conventions of their discipline. Students’ own writing will serve as the basis for class discussions. Credit units: 3 ECTS Credit Units: None.

ELS 103 Advanced English I
This course aims at improving language accuracy and fluency through critical analysis of content and regular oral and written tasks which require students to present, express, and support their opinions. Credit units: 3 ECTS Credit Units: 5. Aut (R. Koç) Spr (Staff)

ELS 104 Advanced English II
This course builds on ELS 103 and aims to develop the ability to argue, formulate and organise various viewpoints and present them in written and spoken English. Credit units: 3 ECTS Credit Units: 5, Prerequisite: ELS 103. Aut (T. M. Thurston) Spr (Staff)

ELS 203 Advanced English III
The objective of this course is to develop professional communication skills necessary for Vocational School students and to bring the real world of international business into the language-teaching classroom. Coursework includes writing e-mails, business letters, discussing case studies, and giving oral presentations, learning problem-solving techniques and analytical skills. Credit units: 2 ECTS Credit Units: None, Prerequisite: ELS 103 and ELS 104. Aut (G. Uğuz) Spr (Staff)

ELS 204 Advanced English IV
The general basis of ELS 204 is to consolidate the business communication skills necessary for students in their professional life, as initiated in ELS 203. Throughout the course students are encouraged to use their own experience and opinions in order to maximise their analytical and persuasive skills. Credit units: 2 ECTS Credit Units: None, Prerequisite: ELS 103 and ELS 104 and ELS 203. Aut (G. Uğuz) Spr (Staff)

ELS 301 Advanced Communication Skills
This course for CTIS students aims to develop advanced level oral, written, and thinking skills through presentations, debates, secondary research and technical report writing in an extended problem and solution analysis scenario. Credit units: 3 ECTS Credit Units: 4, Prerequisite: ELS 102 or ENG 102. Aut (R. Koç, T. M. Thurston) Spr (Staff)
VOCATIONAL PROGRAM IN TRANSLATION

N. Yeşil (Chair).

English and Translation Studies is a two-year program for students seeking employment in business and professional organizations where proficiency in English and Turkish is essential to translate into either language. Upon successful completion of the program students are awarded the degree of Associate of Arts in Translation.

The program provides sound vocational training in translation and interpreting from English into Turkish and Turkish into English. Courses specifically designed to lay a foundation for linguistic ability and to heighten awareness in the target and source cultures are offered to students as support to a wide range of courses in written translation, audiovisual translation and interpreting.

A high standard of English and Turkish is required for successful translators. Those students who are admitted into the program but whose level of English does not permit them to join the freshman year of the program are required to enter the Preparatory Program in order to meet the minimum requirement for entry into the freshman year.

UNDERGRADUATE PROGRAM

CURRICULUM

FIRST YEAR

<table>
<thead>
<tr>
<th>Autumn Semester</th>
<th>Credits / ECTS Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CTP 191 Introduction to Computers</td>
<td>3 / 5</td>
</tr>
<tr>
<td>ENG 101 English and Composition I</td>
<td>3 / 6</td>
</tr>
<tr>
<td>ETS 105 Discourse Analysis I</td>
<td>2 / 3</td>
</tr>
<tr>
<td>ETS 107 Comparative Grammar I</td>
<td>3 / 4</td>
</tr>
<tr>
<td>ETS 115 Reading for Translation Purposes</td>
<td>3 / 4</td>
</tr>
<tr>
<td>ETS 121 Written Translation I</td>
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</tr>
<tr>
<td>ETS 145 Communication Skills</td>
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</tr>
<tr>
<td>GE 100 Orientation</td>
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<tr>
<td>TURK 101 Turkish I</td>
<td>2 / 1</td>
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</table>

<table>
<thead>
<tr>
<th>Spring Semester</th>
<th>Credits / ECTS Credits</th>
</tr>
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<tbody>
<tr>
<td>ENG 102 English and Composition II</td>
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<tr>
<td>ETS 108 Comparative Grammar II</td>
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<td>ETS 122 Written Translation II</td>
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<tr>
<td>ETS 124 Written Media Translation</td>
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<tr>
<td>ETS 136 Translation for Business I</td>
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<tr>
<td>ETS 184 Societies and Cultures</td>
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<tr>
<td>TURK 102 Turkish II</td>
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SECOND YEAR

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<thead>
<tr>
<th>Autumn Semester</th>
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<tbody>
<tr>
<td>ETS 205 Discourse Analysis II</td>
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<tr>
<td>ETS 213 Translation for Dubbing and Subtitling I</td>
<td>3 / 5</td>
</tr>
<tr>
<td>ETS 215 Interpreting I</td>
<td>3 / 5</td>
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<tr>
<td>ETS 221 Theories of Translation</td>
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<tr>
<td>ETS 237 Translation for Social Sciences</td>
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<tr>
<td>ETS 281 Translation for Science and Technology I</td>
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<tbody>
<tr>
<td>ETS 208 Translation for Business II</td>
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<tr>
<td>ETS 214 Translation for Dubbing and Subtitling II</td>
<td>3 / 5</td>
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<tr>
<td>ETS 216 Interpreting II</td>
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</tr>
<tr>
<td>ETS 222 Translation Project</td>
<td>3 / 5</td>
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<tr>
<td>ETS 224 Literary Translation</td>
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<td>Course Code</td>
<td>Course Title</td>
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<tr>
<td>ETS 27</td>
<td>Translation for Specific Purposes I</td>
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<tr>
<td>ETS 105</td>
<td>Discourse Analysis I</td>
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<tr>
<td>ETS 107</td>
<td>Comparative Grammar I</td>
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<td>Comparative Grammar II</td>
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<td>ETS 115</td>
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<td>Written Translation II</td>
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<tr>
<td>ETS 124</td>
<td>Written Media Translation</td>
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<tr>
<td>ETS 136</td>
<td>Translation for Business I</td>
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</tbody>
</table>
ETS 145 Communication Skills
The objective of this course is to introduce the aspects of active listening and different kinds of speeches that interpreters have to deal with and to raise an awareness of the properties of such speeches. Identifying the type of speech, students learn how to analyze its structure, discerning the main ideas and the links between them. Students are also familiarized with the barriers to communication such as implied meaning, metaphor, understatement, hyperbole, irony, etc. Through the preparation and presentation of speeches, students consolidate what they have learnt and overcome their anxiety when speaking before a group. Students will be able to benefit from these skills in their interpreting courses. **Credit units: 3 ECTS Credit Units: 4.**

ETS 184 Societies and Cultures
The primary intent of this course is to closely study the concepts of society and culture with a view to analyzing the relationship between the individual and society. Students are expected to read texts critically and discuss topics related to social institutions such as politics, religion, education, economy, and family. Through questioning and critical thinking, students shall have the opportunity to gain insight into themselves, their close environment as well as the society and culture they belong to. **Credit units: 3 ECTS Credit Units: 4.**

ETS 205 Discourse Analysis II
In this course, students further develop the discourse analytical skills attained in "Discourse Analysis I". Students analyze the discourse properties in encyclopedic entries, articles, black humor texts as well as excerpts from short stories and novels in English and translate these texts into Turkish under the light of their analyses. **Credit units: 3 ECTS Credit Units: 4.**

ETS 208 Translation for Business II
The course aims at improving students competence in the translation of a variety of business documents and texts in Turkish and English and helping them analyze and compare the norms which operate in the business world of the source and target systems. Together with these analyses, students produce translations in contexts such as law (court verdicts, judicial records, etc.) or international organizations like the European Union and the World Bank (presidency conclusions, educational sector study reports, etc.). **Credit units: 3 ECTS Credit Units: 5.**

ETS 213 Translation for Dubbing and Subtitling I
This course is designed to be practical and to mimic the professional working environment. The norms and technical aspects of subtitle translation are taught through readings, lectures and demonstrations. Students who gain practice in adjusting film dialogues into subtitle units and translating them into Turkish, also read about and discuss issues such as the role of audiovisual (AV) translation in the transmission of cultural values and the concepts of adequacy and acceptability in AV translation. **Credit units: 3 ECTS Credit Units: 5.**

ETS 214 Translation for Dubbing and Subtitling II
The main objective of this course is to familiarize the students with the mechanics of voicing, with a particular emphasis on lip-sync dubbing of feature films. Students are exposed to sample dubbing texts in Turkish, which are compared to and contrasted with original dialogue scripts in English. They also gain practice in translating film dialogues into Turkish and synchronising the translated dialogues with the lip movements of the actors. **Credit units: 3 ECTS Credit Units: 5.**

ETS 215 Interpreting I
This course is intended to introduce the types of interpreting and raise an awareness of the skills and strategies used in consecutive interpreting and sight translation. Students improve consecutive interpreting and sight translation skills in the interpreting laboratory of the department. Throughout the semester, students interpret and translate authentic conference texts on a variety of topics from English into Turkish. **Credit units: 3 ECTS Credit Units: 5.**

ETS 216 Interpreting II
This course aims to help students learn and practice the basics of simultaneous interpreting. After some simultaneous-specific preparation exercises, students simultaneously interpret authentic conference texts from English into Turkish in the department's interpreting laboratory and get acquainted with the tools and strategies of the simultaneous interpreter. **Credit units: 3 ECTS Credit Units: 5.**

ETS 221 Theories of Translation
The main objective of this course is to assist students in discovering how theory relates to practice in the field of translation. Given an introduction to the history of translation theory, students develop a critical outlook on theories of translation and translation criticism. By means of this method, the student is expected to acquire a deeper insight into the process and product of translation. **Credit units: 3 ECTS Credit Units: 5.**

ETS 222 Translation Project
This course aims to ensure that students make use of their knowledge of translation theory in the areas of translation practice and criticism. Students are expected to prepare and present three projects. The first project involves a description of the student's practical training. For the second project, students write a critical comparison of at least two translations of one source text. The third project comprises a translation of a short story (or an informative text) along with a description of the decision-making process of the translation. **Credit units: 3 ECTS Credit Units: 5.**
ETS 224  Literary Translation
This course aims to familiarize students with the norms in literary translation with reference to textual traditions in Turkish and English literatures. To this end, students translate excerpts from plays and short stories as well as samples of poetry. Based on their decision-making processes in translation assignments, students acknowledge the polysemous nature of literary texts that may be conveyed by means of various translation solutions. Credit units: 3 ECTS Credit Units: 5.

ETS 237  Translation for Social Sciences
This course aims at helping students expand their vocabulary and develop an awareness of particular norms operating in Turkish and English texts in fields such as politics, art, tourism, archeology, psychology, sociology, anthropology and philosophy. After reading the texts, students are encouraged to find parallel texts in the target language and to analyse them in terms of lexis and textual norms. Students not only enhance their vocabulary and comprehension skills, but also improve their translation skills by translating excerpts from these texts. Credit units: 3 ECTS Credit Units: 5.

ETS 281  Translation for Science and Technology I
The aim of this course is to help students acquire and use the skills required in the translation of texts from various areas of science and technology. Through readings in Turkish, students attain background knowledge and learn the terminology in related areas such as innovations, architecture, engineering, etc. This activity helps students discover those norms that regulate the translation of texts of this kind and enables them to do their translations bearing such norms in mind. Credit units: 3 ECTS Credit Units: 4.

ETS 282  Translation for Science and Technology II
This course is designed to familiarize students with the translation of medical texts. To this end, students read a variety of Turkish texts in different fields of medicine and discover the terminology used. Students explore the norms that operate in Turkish medical texts and make use of this knowledge in the decision-making processes of their translations. Credit units: 2 ECTS Credit Units: 4.
VOCATIONAL SCHOOL OF COMPUTER TECHNOLOGY AND OFFICE MANAGEMENT

Kamer Rodoplu, Director

The Vocational School of Computer Technology and Office Management offers two-year programs in the following areas:

- Accounting
- Bureau Management and Executive Assistantship
- Commerce and Administration
- Computer Technology and Programming

The school places an emphasis on maintaining a continuous dialogue with business and industry. This cooperation allows for a dynamic curriculum to reflect the changing needs of these environments. A training period under the supervision of the School is incorporated into the summer programs to familiarize the students with their respective industrial areas of study.

ACADEMIC STAFF

Can Uğur Ayfer, Instructor
M.S., Computer Engineering, Middle East Technical University, 1980. Internet programming, operating systems, network applications.

Reyyan Ayfer, Instructor
M.S., Computer Engineering, Middle East Technical University, 1981. Database management, programming languages, data structures, information ethics and security.

Ahmet Durukal, Instructor

Esra Foundik, Assistant Professor
Ph.D., Library Information Sciences, Hacettepe University, 1985. Etiquette and modern business manners, business writing techniques in Turkish.

Sezer Kadayıfçılar, Instructor

VOCATIONAL SPECIALISTS

Ashlı Ömerbeyoğlu
M.S., Business Administration, Atılım University, 2006. Accounting standards, computer aided accounting applications.
ACCOUNTING AND TAXATION

A. Durukal (Chair), S. Kadayıfçılar.

Vocational Specialists: A. Ömerbeyoğlu.

This two year program leading to an Associate of Science degree in accounting aims at training qualified personnel to meet the requirements of the accounting world. Students are given a strong background in business and financial applications, and are trained so that they are familiar with the software packages used in real life. The curriculum of the department covers applied computer techniques, financial, managerial and advanced level accounting applications, auditing and taxation together with relevant topics in mathematics, statistics and business finance. All accounting courses involve hands-on experience in the most widely used spreadsheet and accounting software packages in the laboratory. At the end of their first year, students are required to successfully complete a 30 day industrial training program where they are expected to develop their practical skills in accounting applications.

### CURRICULUM

#### FIRST YEAR

<table>
<thead>
<tr>
<th>Autumn Semester</th>
<th>Credits / ECTS Credits</th>
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<tbody>
<tr>
<td>CAA 111</td>
<td>Financial Accounting</td>
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<td>CAA 123</td>
<td>PC Business Applications</td>
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<td>CAD 111</td>
<td>Principles of Management</td>
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<td>CAD 125</td>
<td>Business Mathematics</td>
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<td>ENG 101*</td>
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<td>GE 100</td>
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<td>TURK 101</td>
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<tr>
<th>Spring Semester</th>
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<tbody>
<tr>
<td>CAA 112</td>
<td>Cost Accounting</td>
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<tr>
<td>CAA 223</td>
<td>Advanced Spreadsheet Applications</td>
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<td>CAD 113</td>
<td>Microeconomics</td>
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<tr>
<td>CAD 225</td>
<td>Management Science</td>
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<td>ENG 102*</td>
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<td>TURK 102</td>
<td>Turkish II</td>
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* Depending on the result of the COPE exam, students may take ELS 103 - ELS 104 - ELS 203 - ELS 204 in place of ENG 101 - ENG 102.

#### SECOND YEAR

<table>
<thead>
<tr>
<th>Autumn Semester</th>
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<tr>
<td>CAA 200</td>
<td>Industrial Training</td>
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<tr>
<td>CAA 211</td>
<td>Managerial Accounting</td>
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<tr>
<td>CAA 243</td>
<td>Auditing</td>
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<tr>
<td>CAA 245</td>
<td>Financial Regulations</td>
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<tr>
<td>CAD 126</td>
<td>Statistics</td>
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<td>CAD 231</td>
<td>Macroeconomics</td>
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<th>Credits / ECTS Credits</th>
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<tbody>
<tr>
<td>CAA 212</td>
<td>Advanced Accounting Applications</td>
</tr>
<tr>
<td>CAA 226</td>
<td>Elements of Finance Analysis</td>
</tr>
<tr>
<td>CAA 246</td>
<td>Principles of Banking and Insurance</td>
</tr>
<tr>
<td>HIST 200</td>
<td>History of Turkey</td>
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<tr>
<td>LAW 313</td>
<td>Business Law</td>
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</tbody>
</table>

Restricted Elective
COURSE DESCRIPTIONS

CAA 111 Financial Accounting
Generally accepted accounting principles, the accounting cycle, double-entry system with emphasis on the adjusting and closing processes, preparation of financial statements (balance sheet, income statement, cash flow statement), bank reconciliation, merchandising operations, plant assets and tangibles. Hands-on experience with popular accounting package software in the laboratory. Credit units: 4 ECTS Credit Units: 6.

CAA 112 Cost Accounting
Comprehensive study on the accountant’s role in providing management with information to assist in the decision making process. Examination of concepts such as process and job-order costing, activity based costing, analysis of cost behavior (variable and fixed cost), cost-volume profit analysis, budgeting for profit planning, flexible budgets, standard cost and variance analysis, inventory planning and control (LIFO, FIFO weighted average). Hands-on experience with popular accounting package software in the laboratory. Credit units: 4 ECTS Credit Units: 6, Prerequisite: CAA 111 or CAD 128.

CAA 123 PC Business Applications
This course provides the fundamentals and basic concepts of personal computers and an introduction to general applications such as word processing, spreadsheets, PowerPoint and the usage of Internet research. The course objective is to provide students with sufficient knowledge to effectively complete written assignments and presentations in the field of business and prepare them for the course CAA 223 which involves the fundamental concepts of spreadsheets as required by the ECDL Advanced Spreadsheet certification. Credit units: 3 ECTS Credit Units: None.

CAA 200 Industrial Training
This non-credit course provides for the evaluation of the student’s 30-day industrial training period which each student is required to complete during the summer break following his/her first year. During their industrial training period, students are expected not only to apply their knowledge and experience gained during their first year, but also to familiarize themselves with the actual business world, and concepts which may be new to them. Credit units: 2 ECTS Credit Units: None, Prerequisite: CAA 111. Aut (A. Durukal)

CAA 211 Managerial Accounting
Advanced topics in financial and managerial accounting, with special emphasis on accounting practices applicable in Turkey. The uniform accounting plan, corporate accounting, and in-depth study on cost accounting, job order cost systems, process cost accounting. Hands-on experience with popular accounting package software in the laboratory. Credit units: 3 ECTS Credit Units: 6, Prerequisite: CAA 112.

CAA 212 Advanced Accounting Applications
Advanced financial, cost, and managerial accounting applications with spreadsheet and accounting software packages. Credit units: 3 ECTS Credit Units: 4, Prerequisite: CAA 112 and CAA 223.

CAA 223 Advanced Spreadsheet Applications
The aim of the course is to provide advanced computerized applications of analysis covered in other courses such as statistics, finance, economics, management science, and accounting. Major topics include creating, enhancing and linking worksheets, charts, statistical, decisional and financial functions, sorting and filtering lists, creating summary reports and pivot tables, modeling. All lectures take place in the computer laboratory. Credit units: 3 ECTS Credit Units: 6, Prerequisite: CAA 123 or CTP 192 or CTP 193.

CAA 226 Elements of Finance Analysis
An overview of financial management and principles. Financial statements and their analysis. Time value of money. Capital budgeting. Working capital management. Financial forecasting. Risk and rates of return. Credit units: 3 ECTS Credit Units: 6, Prerequisite: (CAD 125 or BIM 107) and (CAD 128 or CAA 111 or THM 106).

CAA 243 Auditing
Basic of auditing financial records both for self control and outside auditors. Kinds of audits, purpose and the conduct of the audit. Maintaining accuracy in accounting transactions. Audit of financial statements. Cycles in the accounting system, computer auditing. Detailed examination of legal aspects involved in auditing. Credit units: 3 ECTS Credit Units: 6, Prerequisite: CAA 111 or CAD 128.

CAA 245 Financial Regulations
The aim of the course is to prepare accounting students regarding financial regulations concerning taxation, social security, incentives, foreign investments, exchange controls, customs union and free trade zones. Credit units: 3 ECTS Credit Units: 4, Prerequisite: CAA 111 or CAD 128.

CAA 246 Principles of Banking and Insurance
CAA 248  Legal Aspects of Business

CAA 251  Computerized Accounting Applications
Topics in financial and managerial accounting with emphasis on applications in Turkey including Financial Statements, Uniform Accounting Plan, Job - Costing and Process - Costing Systems and their applications. Hands - on experience adjusting and closing entries with popular accounting software packages. Credit units: 3 ECTS Credit Units: None.
E. Findik (Chair).

The curriculum of the vocational program in Bureau Management and Executive Assistantship is designed to prepare the student to serve as a link between the decision maker/executive and the persons implementing those decisions.

The world of business has characterized by flexibility and change. Nonetheless, fundamental skill requirements endure. Among these is the need for a high level of competence on the part of the office manager. She/he has been referred to as an "executive extender," one who must be efficient and up-to-date in office skills, a highly trained member of the office team.

The program in Bureau Management and Executive Assistantship allows the student to develop skills in computer and information systems, computer applications, advanced word processing, office machine operation, accounting, business behavior, economics, management, and other related subjects. A six-week on-the-job training period, under the supervision of the department, is incorporated in the program during the summer months of the first year to familiarize the student with the business world. Graduates of the department will be qualified bilingual office managers in English and Turkish with experience in business correspondence in both languages and will thus be in a position to undertake duties as responsible, respected, high-placed office managers.

CURRICULUM

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<td>Keyboarding</td>
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<td>BM 161</td>
<td>Office Administration and Management</td>
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<td>BM 171</td>
<td>Business Mathematics</td>
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<td>CTP 191</td>
<td>Introduction to Computers</td>
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<tr>
<td>BM 102</td>
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<td>BM 172</td>
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<td>Principles of Accounting</td>
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<td>CTP 192</td>
<td>Introduction to Computer Applications</td>
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<td>BM 201</td>
<td>Advanced Word Processing</td>
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<td>BM 261</td>
<td>Microeconomics</td>
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<td>BM 272</td>
<td>Business Writing Techniques in Turkish</td>
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<td>BM 281</td>
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<td>CTP 291</td>
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<td>ETS 131</td>
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<tbody>
<tr>
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<td>Reports and Audio Transcription</td>
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<tr>
<td>BM 262</td>
<td>Principles of Management</td>
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CTP 292  Computer Applications for Business II  ........................................  3 / 5
ETS 132  Business Translation II  .............................................................  3 / 6
Restricted Elective  .................................................................  3 / 6

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CAD 114  Principles of Marketing  ......................................................  3 / 4
FRE 111  Basic French I  ...............................................................  3 / 6
FRE 112  Basic French II  .............................................................  3 / 6
FRL 131  Basic Arabic I  ...............................................................  3 / 6
FRL 132  Basic Arabic II  ...............................................................  3 / 6
FRL 141  Basic Persian I  ...............................................................  3 / 6
FRL 142  Basic Persian II  ...............................................................  3 / 6
FRL 155  Basic Chinese I  ...............................................................  3 / 6
FRL 156  Basic Chinese II  .............................................................  3 / 6
GER 111  Basic German I  ...............................................................  3 / 6
GER 112  Basic German II  .............................................................  3 / 6
ITA 111  Basic Italian I  .................................................................  3 / 6
ITA 112  Basic Italian II  .................................................................  3 / 6
JAP 111  Basic Japanese I  ...............................................................  3 / 6
JAP 112  Basic Japanese II  ..............................................................  3 / 6
PSYC 100  Introduction to Psychology  ..............................................  3 / 6
PSYC 110  Psychological Methods  ..................................................  3 / 7
RUS 111  Basic Russian I  ...............................................................  3 / 6
RUS 112  Basic Russian II  ..............................................................  3 / 6
SPA 111  Basic Spanish I  ...............................................................  3 / 6
SPA 112  Basic Spanish II  ...............................................................  3 / 6

COURSE DESCRIPTIONS

BM 100  Keyboarding
At the end of this course, the student will be able to type by touch (without visual assistance) on a computer keyboard, using techniques that are acceptable. This course makes the students able to type letters, figures and most commonly used symbol keys and to use the basic rules of arrangement of copy on paper; to apply ten finger typing skills to production of documents both in Turkish and English. Students, who can touch type, do computer-based tasks, assignments, reports and thesis more quickly at school or home. They also can enter their thoughts and ideas straight into the computer and edit it properly. Credit units: 2 ECTS Credit Units: 2. Aut (G. Demirel)

BM 101  Keyboarding
At the end of this course, the student will be able to touch-typing (without visual assistance) on a computer keyboard, using techniques that are acceptable; to format copy by setting margins and tabs; to proofread and edit a selected paragraph, at speed and accuracy rates appropriate to the kind of copy. Credit units: 3 ECTS Credit Units: 6.

BM 102  Applied Word Processing
A systematic and comprehensive program for perfecting and applying formatting skills up-to-date standards of formal correspondence. The purpose of this course is to improve basic keyboarding abilities that are essential to accurate speed production work (in order to be able to carry out various kinds of formatting techniques required in a modern office.) It involves applying keyboarding and communication skills to practical work and formatting primary personal and business documents. Credit units: 3 ECTS Credit Units: 5.

BM 172  Filing and Record Management
This course provides the students with the knowledge of how to set up and maintain files and records. They will learn the basic filing methods and indexing rules. They distinguish between basic filing equipment and supplies. The students identify the importance of efficient records management programs in today's business offices and also identify the "life cycle" of records; including the basic components of records management programs such as records retention, transfer and disposition. In addition, they will learn the importance of vital records and they will study the centralized and decentralized files management. Credit units: 3 ECTS Credit Units: 4.

BM 200  On the Job Training
The main objective of this training is for students to observe the real aspects of business life and have an opportunity to improve their skills and knowledge and to familiarize the student with the business world. During
BM 201 Advanced Word Processing
This course aims to improve the basic keyboarding skills by having the students use effective skill development materials. In order to give the students a professional approach on-the-job activities, they will be exposed to keyboarding problems related to executive offices. High quality typing and independent work without direct supervision are the other features of this course. **Credit units:** 3 ECTS **Credit Units:** 4.

BM 202 Reports and Audio Transcription
This course is designed to teach report writing techniques in computer aided environment. The other important feature of this course is to teach how to use a special program, like "coolpro.exe"; in transcribing audio-recorded materials. **Credit units:** 3 ECTS **Credit Units:** 5.

BM 271 Etiquette and Modern Business Manners
This course is designed to acquaint the student with the good manners and etiquette rules of public places and the business world. The topics to be covered are: business and social manners of public occasions and events, everyday courtesies, male and female work relationships, executive communication, executive entertaining, seated dinners, gift giving and receiving. The course will be conducted partly in Turkish. **Credit units:** 3 ECTS **Credit Units:** 4.

BM 272 Business Writing Techniques in Turkish
This course will integrate the principles and practices of Business Writing in Turkish. Topics will include: general writing techniques, letter writing, principles of writing memorandums and reports, press releases, finding business information, writing resumes, applications and employment letters, and speech writing. **Credit units:** 3 ECTS **Credit Units:** 4.
COMMERCE AND ADMINISTRATION

A. Durukal (Acting Chair).

Commerce and Administration is a two-year program leading to an Associate of Science degree in business administration. Students are given a strong background in business, marketing, human resource management and financial applications, and trained so that they are familiar with the software packages widely used in business.

The curriculum of the department covers business administration, production management, marketing, human resources management, economics, statistics, accounting and finance courses. Apart from the “must” courses in the curriculum, students select two elective courses in their second year. The elective courses offered by the Department aim not only at broadening the student’s knowledge on certain topics, but also serve to guide the student into a deeper understanding of various options in the field of business administration.

At the end of their first year students are required to successfully complete a 30-day industrial training program. Industrial training is aimed to develop the students practical skills in business applications. During their industrial training period, students are expected not only to apply their knowledge and experience gained during the first year, but also to familiarize themselves with the actual business world, and concepts which may be new to them.

CURRICULUM

FIRST YEAR

<table>
<thead>
<tr>
<th>Autumn Semester</th>
<th>Credits / ECTS Credits</th>
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<tbody>
<tr>
<td>CAA 123</td>
<td>PC Business Applications</td>
</tr>
<tr>
<td>CAD 111</td>
<td>Principles of Management</td>
</tr>
<tr>
<td>CAD 113</td>
<td>Microeconomics</td>
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<tr>
<td>CAD 125</td>
<td>Business Mathematics</td>
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<td>English and Composition I</td>
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<td>GE 100</td>
<td>Orientation</td>
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<td>TURK 101</td>
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<th>Spring Semester</th>
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<tr>
<td>CAA 223</td>
<td>Advanced Spreadsheet Applications</td>
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<td>CAD 114</td>
<td>Principles of Marketing</td>
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<tr>
<td>CAD 126</td>
<td>Statistics</td>
</tr>
<tr>
<td>CAD 128</td>
<td>Principles of Financial Accounting</td>
</tr>
<tr>
<td>CAD 231</td>
<td>Macroeconomics</td>
</tr>
<tr>
<td>ENG 102*</td>
<td>English and Composition II</td>
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<td>TURK 102</td>
<td>Turkish II</td>
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* Depending on the result of the COPE exam, students may take ELS 103 - ELS 104 - ELS 203 - ELS 204 in place of ENG 101 - ENG 102.

SECOND YEAR

<table>
<thead>
<tr>
<th>Autumn Semester</th>
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<tbody>
<tr>
<td>CAD 200</td>
<td>Industrial Training</td>
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<td>CAD 211</td>
<td>Organizational Behavior</td>
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<tr>
<td>CAD 218</td>
<td>Marketing Management</td>
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<td>CAD 225</td>
<td>Management Science</td>
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<tr>
<td>CAD 229</td>
<td>Principles of Managerial Accounting</td>
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<tr>
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<table>
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<th>Spring Semester</th>
<th>Credits / ECTS Credits</th>
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</thead>
<tbody>
<tr>
<td>CAA 226</td>
<td>Elements of Finance Analysis</td>
</tr>
<tr>
<td>CAD 212</td>
<td>Production Management</td>
</tr>
<tr>
<td>CAD 216</td>
<td>Human Resources Management</td>
</tr>
<tr>
<td>HIST 200</td>
<td>History of Turkey</td>
</tr>
</tbody>
</table>
COMMERCE AND ADMINISTRATION

LAW 313  Business Law ............................................................... 3 / 6
Restricted Elective ................................................................. 3 / 6

COURSE DESCRIPTIONS

CAD 111  Principles of Management
Introduction to management: concepts, principles, techniques and practices. Understanding the manager's role. The management process: planning, organizing, leading and controlling. The environment of management, social responsibility and ethics. Understanding an organization. Credit units: 3 ECTS Credit Units: 4.

CAD 113  Microeconomics
An analytical look at the basis of production and consumption behavior, market structures, pricing system, resource allocations, market failures. Credit units: 3 ECTS Credit Units: 4.

CAD 114  Principles of Marketing
Fundamental concepts in marketing. Strategic planning, marketing environment, consumer buyer behavior, marketing segmentation, targeting, positioning, marketing mix (4P) and global marketing. Credit units: 3 ECTS Credit Units: 4, Prerequisite: CAD 111.

CAD 125  Business Mathematics

CAD 126  Statistics
Summarizing data with tabular and graphical approaches. Measures of central tendency and dispersion. Basic principles of probability. Test of hypotheses. Computer applications with statistical software packages. Credit units: 3 ECTS Credit Units: 5, Prerequisite: CAD 125.

CAD 128  Principles of Financial Accounting

CAD 200  Industrial Training
This course provides for the evaluation of the 30-day industrial training period students are required to complete during the summer break following their first year. During their industrial training period, students are expected not only to apply their knowledge and experience gained during their first year, but also to familiarize themselves with the actual business world, and concepts which may be new to them. Credit units: 2 ECTS Credit Units: None, Prerequisite: CAD 111. Aut (A. Durukal)

CAD 211  Organizational Behavior
Understanding levels in OB: Individual level, group level and organization system level. Foundations of individual behavior, role of personality and emotions. The behavior of people in groups. The formal organization system. (Organization's structure, culture, work design, communication, change and development) Credit units: 3 ECTS Credit Units: 5, Prerequisite: CAD 111.

CAD 212  Production Management
Quality management, TQM, SPC, ISO9000, capacity planning and facility location, inventory systems for independent demand, inventory systems for dependent demand (MRPII), materials and purchasing management, supply chain management. Credit units: 3 ECTS Credit Units: 5, Prerequisite: CAD 125.

CAD 216  Human Resources Management
The nature of human resources management. Staffing the organization. Employee training and development. Developing careers. Motivation and job design. Evaluating employee performance. Maintaining an effective and efficient work environment. Credit units: 3 ECTS Credit Units: 6, Prerequisite: CAD 211.

CAD 218  Marketing Management
The role of marketing in organizations and society. Marketing strategy, strategic marketing planning, implementation and decision making processes. Measuring and forecasting market opportunities. Marketing mix strategies and applications. Credit units: 3 ECTS Credit Units: 4, Prerequisite: CAD 114 or CAD 213 or THM 309.

CAD 225  Management Science
General overview of quantitative techniques and mathematical models within the context of decision making, planning and controlling. Linear programming decision analysis. Forecasting project management, waiting line analysis network models. Credit units: 3 ECTS Credit Units: 6, Prerequisite: CAD 111 and CAD 125.
CAD 229  Principles of Managerial Accounting

CAD 231  Macroeconomics
Analysis of concepts such as gross national product, inflation, employment, national debt, fiscal and monetary policies. Economic fluctuations. Introduction to international economics. Investment and financial intermediation. Banking System. Application of tools of macroeconomic analysis in understanding the economy of a country. Credit units: 3 ECTS Credit Units: 4. Prerequisite: CAD 113.

CAD 233  International Marketing
COMPUTER TECHNOLOGY AND PROGRAMMING

R. Ayfer (Chair), C. U. Ayfer.

Computer Technology and Programming offers a two-year program which provides foundations of a concise computer science education through its carefully designed curriculum. The curriculum includes contemporary computing topics and ultimately earns the students an Associate of Science degree.

The curriculum emphasizes basic theory as well as practical experience in a variety of operating environments, tools and programming languages. It is designed to equip students with strong problem solving abilities, critical thinking abilities and skills for life long learning. Students who complete the program will have a thorough knowledge and experience in structured and object oriented programming in Windows and UNIX environments. Programming languages such as C, C++, Java, visual programming tools, relational database management systems, and data communications are the major topics covered during the program. Students are required to design and implement various programming projects in partial fulfillment of the curriculum.

The courses are combination of theory and laboratory practice in up to date lab facilities. Facilities including a network of personal computers in laboratories and multiple UNIX servers, all connected to the campus backbone. Instruction is supported by the department computational facilities including a network of personal computers in laboratories and multiple UNIX servers, all connected to the campus backbone.

The program specifics are designed and frequently updated to reflect changes in the IT industry. This dynamism in the curriculum adapts the students to the needs and expectations of the industry as well as prepares them to continue their academic studies leading to a BS degree in Computer Science.

The compulsory 30 days industrial training has proven to be a valuable interaction between the industry and the department, and it provides strong recruitment opportunities for the students.

CURRICULUM

FIRST YEAR

<table>
<thead>
<tr>
<th>Autumn Semester</th>
<th>Credits / ECTS Credits</th>
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<tbody>
<tr>
<td>CTP 101</td>
<td>Introduction to Programming</td>
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<tr>
<td>CTP 105</td>
<td>Programming Environment</td>
</tr>
<tr>
<td>CTP 107</td>
<td>Discrete Mathematics</td>
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<table>
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<tr>
<th>Spring Semester</th>
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<tbody>
<tr>
<td>CTP 102</td>
<td>Elementary Data Structures</td>
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<tr>
<td>CTP 106</td>
<td>Business Applications</td>
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<tr>
<td>CTP 108</td>
<td>Computer Programming for Business</td>
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<tr>
<td>CTP 118</td>
<td>Computer Organization</td>
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SECOND YEAR

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<thead>
<tr>
<th>Autumn Semester</th>
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<tbody>
<tr>
<td>CTP 200</td>
<td>Industrial Training</td>
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<tr>
<td>CTP 201</td>
<td>Object Oriented Programming I</td>
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<tr>
<td>CTP 203</td>
<td>Operating Systems</td>
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<tr>
<td>CTP 209</td>
<td>Systems Development</td>
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</table>
CTP 100  Transferable Skills
This course aims to provide the input and practice in transferable skills such as learning skills, self-management, working collaboratively, problem solving, communication skills and information technology. The course aims to help students discover their personal strengths and weaknesses as well as guiding them to develop their life-long competencies. The course work consists of self-awareness activities and authentic tasks such as role-plays and case studies. Credit units: 2 ECTS Credit Units: 2.

CTP 101  Introduction to Programming
An introduction to programming using problem solving strategies. Theoretical principles and phases of problem solving. Basic properties of algorithms. Top-down design. Structured programming techniques will be introduced using the C language. Topics include data representation, simple arithmetic expressions, basic problem solving concepts: selection and repetition, arrays, functions and modular programming, program testing and debugging. (Six hours lecture, four hours lab). Credit units: 5 ECTS Credit Units: 10.

CTP 102  Elementary Data Structures

CTP 105  Programming Environment
An introduction to programming using problem solving strategies. Theoretical principles and phases of problem solving. Basic properties of algorithms. Top-down design. Structured programming techniques will be introduced using the C language. Topics include data representation, simple arithmetic expressions, basic problem solving concepts: selection and repetition, arrays, functions and modular programming, program testing and debugging. (Six hours lecture, four hours lab). Credit units: 5 ECTS Credit Units: 10. Prerequisite: CTP 101.

CTP 106  Business Applications
The aim of this course is to provide the students with skills necessary to construct well-designed web sites. The web page design for business. This course provides an introduction to basic web design and implementation topics to create professional looking web pages. Topics include an introduction to HTTP and CGI web protocols, principles of web design, HTML/XHTML, cascading style sheets, JavaScript basics, and the implementation of web pages using web authoring tools. Credit units: 3 ECTS Credit Units: 4.

CTP 107  Discrete Mathematics
The aim of this course is to develop logical reasoning ability of students. Topics include elements of logic, set theory and operations on sets; DeMorgan's rules, finite and infinite. Relations and functions. Logic circuits. Induction and recursion, pigeonhole principle. Permutations, combinations and probability of discrete events. Graphs and their representation in computing. Credit units: 3 ECTS Credit Units: 6.

CTP 108  Computer Programming for Business
This course examines programming fundamentals of Windows desktop using up-to-date software development tools, while introducing students the important event driven features of that platform. The course utilizes integrated cases that are improved from week to week, and are based upon common business problems and processes integral to solving them. A consistent four-step design methodology (Plan/Design/Code/Run) encourages problem-solving as students learn how to create applications. Includes data storage, form and database design basics and in-class debates related to computing business topics. Credit units: 4 ECTS Credit Units: 6. Prerequisite: CTP 101.

CTP 118  Computer Organization
The aim of this course is to prepare students for computing and technical programming. Course topics include number theory. Definitions, operations and properties to Boolean algebra. Digital logic gates. Combinational Systems. Flip-flops. Sequential Logic. Registers, shift registers. Counters. ALU, CPU, Control Unit. Credit units: 3 ECTS Credit Units: 4.
CTP 200  **Industrial Training**  
The aim is to provide students an opportunity to take part in the real business environment and understand the requirements of the industry. Students are expected not only to apply their knowledge and experience gained during their first year but also to familiarize themselves with technologies and concepts new to them. This thirty day training period is undertaken during the summer break following a successful completion of the first year. **Credit units:** None  **ECTS Credit Units:** None  **Prerequisite:** CTP 102 and CTP 108. Aut (S. Üğurlubilek) Spr (S. Üğurlubilek)

CTP 201  **Object Oriented Programming I**  
Description of object-oriented program development. Introduction of object oriented programming concepts using C++ programming language. Objects, classes, encapsulation. Hierarchy between classes, inheritance and abstract classes. Function and operator overloading. Virtual functions, virtual baseclasses and polymorphism. **Credit units:** 5  **ECTS Credit Units:** 10  **Prerequisite:** CTP 102.

CTP 202  **Object Oriented Programming II**  
This course is designed a second course in object-oriented programming. Object-oriented concepts are further developed using the Java programming language. The course covers OOP concepts, including classes and objects, encapsulation, inheritance, polymorphism, interfaces and abstract classes. Important Java packages, classes and GUI design are also included. **Credit units:** 5  **ECTS Credit Units:** 8  **Prerequisite:** CTP 201.

CTP 203  **Operating Systems**  
The course is designed to provide the fundamentals of operating systems and an introduction to the internal operations of modern operating systems (OS). Topics include: history and basic OS concepts, process management, memory management, file systems, input/output management, operating system security and protection and support for distributed systems. Also covered is the UNIX environment and shell scripts. **Lab sessions:** Unix/Linux Administration. **Credit units:** 4  **ECTS Credit Units:** 6  **Prerequisite:** CTP 201.

CTP 204  **Networking Principles and Applications**  
The course aims to provide information about the fundamentals of data communications and contemporary computer network principles and applications. Topics include: electronic communications, analog and digital signals, data communications, local and wide area networks, OSI layers, internetworking (TCP/IP, Ethernet). Designed to prepare students for more advanced topics in networking. **Lab sessions:** Unix/Linux networking. **Credit units:** 3  **ECTS Credit Units:** 5  **Prerequisite:** CTP 203.

CTP 205  **Database Management Systems**  
The course includes DBMS concepts, definitions, specifications and objectives. Includes the relational data model. SQL will be introduced as a data manipulation language. Topics also include data base design consider-ations(ER Diagrams and normalization), concurrency control mechanisms, crash recovery concepts and an overview of current trends. During lab sessions students have hands on experience using SQL as a database tool, and experience applications created with a widely-used database package. **Credit units:** 4  **ECTS Credit Units:** 6  **Prerequisite:** CTP 203.

CTP 206  **Programming for the Internet**  
This course is designed to introduce to the student the fundamentals of developing web-based applications. Upon completion of the course students will be able to understand HTTP and CGI protocols, to write basic PHP scripts, to write PHP scripts that use a RDBMS and develop a full featured web based database application. **Credit units:** 3  **ECTS Credit Units:** 5  **Prerequisite:** CTP 227.

CTP 207  **Systems Development**  
The course presents a comprehensive introduction to the systems design skills in information engineering that students, as future users or systems analysts, will need to work in a highly competitive computer-integrated business environment. It provides the students with the skills to identify business problems which may be solved by technology-based solutions, and determine requirements for information systems solutions. The course includes Systems Development Life Cycle (SDLC), Systems Analysis and Design Techniques (DFDs, Logical Modeling, E-R Diagrams, Object Oriented Modeling), review of Unified Modeling Language (UML), Project Management tools verification, validation, configuration management and evaluation of engineering standards such as MIL-STD-498, IEEE/EIA 12207 and ISO 9000-2000. **Credit units:** 3  **ECTS Credit Units:** 6  **Prerequisite:** CTP 108.

CTP 208  **Term Project**  
Specification, analysis, design, implementation, documentation and presentation of a medium-sized software system by small teams under close supervision of an advisor for each team. Teams will develop a software system, utilizing tools and techniques taught in previous courses and new ones that they will independently choose and learn during project development. **Credit units:** 4  **ECTS Credit Units:** 6  **Prerequisite:** CTP 201 and CTP 209.
CTP 227  User Interface Design and Development
The course will begin with introducing the basic principles of user interface design, its significance in human-computer interaction, interface quality, evaluation strategies, understanding the user behavior and interaction schemes. Students will be developing projects throughout the semester to apply their theoretical buildup. Web based user interface technologies will be specially emphasized. The course will be completed with the introduction of web programming, server and client side scripting and their impacts on user interface design.
Credit units: 3 ECTS Credit Units: 6, Prerequisite: CTP 106.
The objective of the two-year program in the Vocational School of Tourism and Hotel Services is to prepare students for various positions in hotels, restaurants and travel agencies. With the rapidly growing potential of tourism, as a leading industry in the economy, the need for well-trained staff is obvious. Success in the hotel and restaurant industry requires substantial professional knowledge, business sense and human relations skills. For this reason, the curriculum of the Vocational School of Tourism and Hotel Services aims at achieving “hands-on” experience. The wide use of laboratories (e.g. training kitchen, restaurant etc.) and the existence of a practice hotel (Bilkent Hotel and Conference Center - Ankara, rated a five-star hotel by the Ministry of Culture and Tourism) provide the students with a firm background in professional skills. Attention is also given to communication skills, foreign languages and computer applications. A 60-day industrial training program at an establishment in the hotel or travel industry is compulsory. This takes place during the summer months after the successful completion of the first year.

ACADEMIC STAFF

**Oğuz Benice**, Instructor  
Diplôme, Études Supérieures en Hôtellerie et Restauration, Ecole Hôtelière de Lausanne, Switzerland, 1992. Food and beverage operations, food and beverage management, Food production techniques.

**Jamel Ben Chafra**, Instructor  
M.B.A., Bilkent University, 1996. Rooms division management, service operations management, industrial training project, Finance, Accounting, Hospitality Management Accounting.

**Hacer Çınar**, Instructor  
B.A., Business Administration, Hacettepe University, 1984. Accounting, tourism management applications, industrial training project, Managerial Accounting, Hospitality management accounting.

**Güneş Karamullaoğlu**, Instructor  
M.B.A., Social Sciences, Gazi University, 2000. Travel operations and management, tour development and implementation, event management, industrial training project, Introduction to Business, Seminars on tourism industry, Tourist Attractions of Turkey, Dynamics of tourism, Senior project.

**Nazende Özkarame Soğan**, Instructor  
Ph.D., Economics, Yeditepe University, 2007. Microeconomics, Macroeconomics, Tourism economics, Quantitative Decision Techniques, Senior project, Industrial training project.

**Perin Öztin**, Instructor (on leave)  

**Mustafa Siyahhan**, Instructor  
M.S.J., Ohio University, 1974. Introduction to Business, Tourism Law, Principles of Marketing, senior project Industrial training project, Strategic marketing.

**Ali Ünal**, Instructor  
HOSPITALITY SERVICES


Hospitality Services Program

The Hospitality Services (HS) program is designed to provide students with relevant education in hotel, restaurant and travel industry, furnishing them with theoretical as well as practical knowledge applicable for the real life circumstances. Emphasis is given on hands-on experience, speaking ability of an additional foreign language and use of computer systems.

CURRICULUM

FIRST YEAR

<table>
<thead>
<tr>
<th>Autumn Semester</th>
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<tbody>
<tr>
<td>Second Foreign Language**</td>
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(Students take either ENG 101 or ELS 103)

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<tr>
<td>Second Foreign Language**</td>
<td>3 / 6</td>
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</tbody>
</table>

(Students take either ENG 102 or ELS 104)

SECOND YEAR

<table>
<thead>
<tr>
<th>Autumn Semester</th>
<th>Credits / ECTS Credits</th>
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<tr>
<td>Restricted Elective</td>
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<tr>
<td>Second Foreign Language**</td>
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<td>3 / 6</td>
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</table>

See note for ELS courses **

RESTRICTED ELECTIVES

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits / ECTS</th>
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<tbody>
<tr>
<td>BIM 282</td>
<td>Hospitality Industry Computerization</td>
<td>3 / 5</td>
</tr>
<tr>
<td>THM 392</td>
<td>Nutrition and General Health</td>
<td>3 / 5</td>
</tr>
<tr>
<td>THM 396</td>
<td>Case Studies for Tourism</td>
<td>3 / 5</td>
</tr>
<tr>
<td>THM 453</td>
<td>Total Quality Management</td>
<td>3 / 5</td>
</tr>
<tr>
<td>THM 454</td>
<td>Management Behavior and Team Effectiveness</td>
<td>3 / 5</td>
</tr>
<tr>
<td>THM 475</td>
<td>Strategic Marketing for the Hospitality Industry</td>
<td>3 / 5</td>
</tr>
<tr>
<td>THM 478</td>
<td>Hotel Investment Decision</td>
<td>3 / 5</td>
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<td>THM 483</td>
<td>Select Issues in Turkish Tourism</td>
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<tr>
<td>THM 484</td>
<td>Case Studies in Applied Marketing</td>
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<tr>
<td>THM 485</td>
<td>Hospitality Architecture and Design</td>
<td>3 / 5</td>
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<tr>
<td>THM 487</td>
<td>Concept and Design for Food and Beverage Outlets</td>
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<tr>
<td>THM 493</td>
<td>Nutritional Anthropology</td>
<td>3 / 5</td>
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<td>THS 210</td>
<td>Selected Topics in Tourism</td>
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<tr>
<td>THS 228</td>
<td>Housekeeping Operations</td>
<td>3 / 5</td>
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<td>THS 239</td>
<td>Tourism Geography of Turkey</td>
<td>3 / 5</td>
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<td>THS 241</td>
<td>Human Resources Management</td>
<td>3 / 5</td>
</tr>
<tr>
<td>THS 245</td>
<td>Purchasing</td>
<td>3 / 5</td>
</tr>
<tr>
<td>THS 258</td>
<td>Legal Aspects of Tourism</td>
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<td>THS 260</td>
<td>Supervision</td>
<td>3 / 5</td>
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<tr>
<td>THS 273</td>
<td>Art of Pastry</td>
<td>3 / 5</td>
</tr>
<tr>
<td>THS 277</td>
<td>Major Issues in Turkish Tourism</td>
<td>3 / 5</td>
</tr>
<tr>
<td>THS 292</td>
<td>Elective II</td>
<td>3 / 5</td>
</tr>
</tbody>
</table>
**SECOND FOREIGN LANGUAGE COURSES**

One of the following four-semester sequences of courses in Japanese, Chinese, Russian, German, Italian, French or Spanish can be taken to fulfill the second foreign language requirements:

Japanese : JAP 111/112/113/114
Chinese : FRL 165/166/167/168
French : FRE 111/112/113/114
German : GER 111/112/113/114
Italian : ITA 111/112/113/114
Spanish : SPA 111/112/113/114
Russian : RUS 111/112/113/114

* ENG-ELS COURSES

The students can take either ELS 103 and ELS 104 in the first year, ELS 203 and ELS 204 in the second year or ENG 101 and 102 based on their success in the COPE or equivalent exams.

**COURSE DESCRIPTIONS**

**THS 105 Introduction to Business**
Designed to give an overall view to all the relevant functions of a business. Emphasizes the integral aspects of the entire business organization and paves the way for functional area knowledge to be developed. Helps to understand and to conceptualize the nature of business, and gives the necessary orientation to the areas that will require functional specialization. **Credit units: 3 ECTS Credit Units: 5.**

**THS 110 Nutrition, Hygiene and Safety**
Provides guidelines in response to today’s increasing concern for adequate sanitation and health. Topics include food, nutrients, food and health interrelations, common nutritional problems and their prevention by means of proper nutritional interventions. Food safety, food service accidents and ways to protect employees are also discussed. **Credit units: 3 ECTS Credit Units: 5.**

**THS 121 Business Mathematics**
Provides mainly background knowledge of simple mathematical computations geared towards increasing student’s competency in solving practical business problems. **Credit units: 2 ECTS Credit Units: 2.**

**THS 126 Food and Beverage Operations**
An introduction into the terminology, concepts and procedures in food and beverage operations, including operational functions and importance within a hotel organization. **Credit units: 3 ECTS Credit Units: 5.**

**THS 131 Introduction to Tourism Industry**
Introduces students to the different components of tourism, emphasizing terminology, concepts and procedures used throughout the travel and hospitality industry, with an overview of the organizations and major operations. **Credit units: 3 ECTS Credit Units: 5.**

**THS 138 World Geography**
Examines the development of the touristic areas of major travel destinations and attractions travelers are journeying to, and developments taking place on a world-wide basis. **Credit units: 3 ECTS Credit Units: 5.**

**THS 148 Front Office Operations**
Analyzes and discusses the various areas of the front office stressing security, communication, statistics, layout, design, front office equipment, and guest-relations skills. The course also attempts to find solutions to common operational problems of the front office such as over-booking, late charge, lost luggage, and skippers. **Credit units: 3 ECTS Credit Units: 5.**

**THS 150 Basic Accounting**
Familiarizes the students within the area of identifying, recording and communicating economic events. The course particularly focuses on teaching basic accounting skills for operational purposes. **Credit units: 3 ECTS Credit Units: 5.**

**THS 161 Health Studies**
The course provides students with the knowledge and skills necessary to help domestic and international tourists whose first-aid problems have to be addressed promptly and properly. It enhances students’ comprehension of theoretical and practical concepts and aspects of health issues routinely encountered in the tourism industry worldwide. **Credit units: 1 ECTS Credit Units: 1.**
THS 162  Behavior and Etiquette
The purpose of this course is to provide basic knowledge and practical guidelines on everyday manners and common courtesies. It also aims at giving a perspective for proper behavior and etiquette acceptable in social and business situations. To sensitize students to the rules of protocol and dynamics of contrasting cultures is another aim of this course. **Credit units:** 1 **ECTS Credit Units:** 1.

THS 200  Summer Training
This program provides students with their first exposure to the tourism workplace. Assignments are scheduled and monitored through the school’s Industrial Training Office. The main objective is to obtain practical, real-life experience. The training program, comprised of a minimum of sixty (60) work days, takes place during the summer period. **Credit units:** None **ECTS Credit Units:** None.

THS 210  Selected Topics in Tourism
The course provides students with the opportunity to reinforce their theoretical knowledge by lectures of successful professionals of tourism industry and other relevant areas; to develop their networks, to have a broader perspective of business life; to help make healthier decisions about their future targets. **Credit units:** 3 **ECTS Credit Units:** 5.

THS 220  Food and Beverage Cost Control
Focuses on the terminology, concepts and procedures of food and beverage planning and cost controlling. Concentrates on cost control tools and their efficient use in food and beverage industry, such as determination of food and beverage standards and sales analyses. **Credit units:** 3 **ECTS Credit Units:** 5.

THS 222  Food Production I
Designed to give a basic knowledge and understanding of food commodities as well as cooking methods applied and food hygiene necessary. **Credit units:** 2 **ECTS Credit Units:** 4.

THS 224  Food Production II
Puts the theory of Food Production I into practice. Cooking of menus which will incorporate cooking methods with a wide range of different food commodities. **Credit units:** 4 **ECTS Credit Units:** 5, **Prerequisite:** THM 244 or THS 221.

THS 223  Food and Beverage Service
Provides students with practical skills and knowledge for effective management of food and beverage services in outlets ranging from coffee shops to room service, banquet areas, and high check average dining rooms. Presents basic service principles while caring for special needs of guests. **Credit units:** 3 **ECTS Credit Units:** 5.

THS 225  Hospitality Industry Accounting
Provides students with the knowledge of hospitality industry accounting under uniform system of accounts and familiarizes them with industry practices. **Credit units:** 3 **ECTS Credit Units:** 5, **Prerequisite:** THM 106 or THS 150.

THS 226  Tourist Geography of Turkey
Discusses regional distribution of touristic activities with an emphasis on natural, historical and archaeological attractions along with their characteristics as tourism products in Turkey. **Credit units:** 3 **ECTS Credit Units:** 5.

THS 241  Human Resources Management
Designed to help students understand and work with human resource managers and also deal directly and successfully with human resource issues themselves. The course focuses on hiring, training and supervision of employees. **Credit units:** 3 **ECTS Credit Units:** 5.

THS 245  Purchasing
Covers main topics with regards to initial planning, selection of vendors, importance of a written specification, operational aspects of purchasing control such as clerical procedures, goods receiving, quality control, storing and issuing, and stock control reconciliation. It also covers subjects such as who, in which department is responsible for buying, pricing and invoicing, and the purchasing committee functions. **Credit units:** 3 **ECTS Credit Units:** 5.

THS 250  Marketing
Lays the groundwork for an understanding of marketing principles and reveals how those principles are applied in the marketing environment for a beginner marketing student. Various case studies one used to support the course helping to present the complex and fascinating world of marketing in a lively and enjoyable way. **Credit units:** 3 **ECTS Credit Units:** 5.
THS 258  Legal Aspects of Tourism
Reviews the concept and kinds of rules with specific significance to legal rules in general and the legal structure of Turkey in particular. The tourism regulations, procedures for tourism certificates, legal aspects related to tourism organizations, investments and operations are analyzed in detail. (This course is conducted in Turkish. International students may take this course by taking a project research on a subject related to international tourism regulations. This subject will be determined by the instructor.) Credit units: 3 ECTS Credit Units: 5.

THS 269  Co-Op Management Application
An integration of hospitality work experience and class room instruction along with the practical management application opportunities in the hospitality industry. Completion of 40 work hours per semester and attainment of on-the-job training goals are required. Hospitality position to be secured prior to the start of the semester. Credit units: None ECTS Credit Units: None.

THS 277  Major Issues in Turkish Tour.
The aim of this course is to evaluate issues deemed to be significantly contemporary and influential in Turkish Tourism. those issues include, but not limited to globalization, media/technology/promotion, the internet, public policies, European Union, Eco-tourism, ethical marketing of tourism products and tourism planning. Credit units: 3 ECTS Credit Units: 5.

THS 292  Elective II
Relevant topics concerning Tourism, Travel, Hotel and Restaurant operations are taught with emphasis on total quality understanding. Credit units: 3 ECTS Credit Units: 5.
PHYSICAL EDUCATION UNIT

Hayri Özkan, Ed.D., Director

The mission of the Physical Education and Sports Center is to provide the environment and programs through which the students of Bilkent University can participate and attain a healthy lifestyle. By participating in quality health, physical education and sports programs the students enrich their campus lives and develop to their fullest individual capacity.

The Physical Education and Sports Center does not offer any degree in physical education. However, the students may take up to three courses for credit over and above their departmental requirements. In addition, grades will appear on transcripts and will affect their GPA and CGPA. Students may choose from a rich selection of physical education and sports courses offered every semester.

ACADEMIC STAFF

Ahsen Bilen, Instructor

Kaan Eynak, Instructor
B.S., Physical Education and Sports, Gazi University, 1984.

Hayri Özkan, Instructor

PART-TIME ACADEMIC STAFF

Engin Akgün, B.S., Ondokuz Mayıs University, 2003.
Celaleddin Merih Altıncı, B.S., Linguistics Department, Hacettepe University, 1989.
Yağmur Yeliz Doyan, B.S., Physical Education and Sports, Gazi University.
Tayfun Eyyapan, B.S., Faculty of Language History and Geography, Ankara University, 2008.
Seda Günaltay, B.S., Medical University, Ankara University, 2008.
Ömer Miahallıçık, B.S., Physical Education and Sports, Gazi University, 1979.
Halim Şener, M.S., Physical Education and Sports, Gazi University, 1986.
Kuntay Velioğlu, B.S., Sports Sciences and Technology, Hacettepe University, 1999.

COURSE DESCRIPTIONS

PE 110 Tennis
This course involves analyzing and teaching basic techniques (serve, forehand, backhand, volley), rules and strategies of the game. Credit units: 1 ECTS Credit Units: None. Aut (C. Altıncı) Spr (C. Altıncı)

PE 115 Squash
The purpose of this courses is to teach the proper techniques such as forehand, backhand, serve, movements in the court, rules and strategies of the game of squash. The students will also learn the important principles in order to play squash safely. Credit units: 1 ECTS Credit Units: None. Aut (H. Özkan, O. Sanrı) Spr (H. Özkan, O. Sanrı)

PE 110 Badminton
This course focuses on teaching basic techniques including serve, underhand and overhead shots, footwork and movement, rules and strategies of the game. Credit units: 1 ECTS Credit Units: None. Spr (M. Aydoğmuş)

PE 125 Tennis
The purpose of this course is to teach basic techniques such as serve, forehand, backhand and footwork, rules and strategies of the game. Credit units: 1 ECTS Credit Units: 1. Aut (Staff) Spr (Staff)

PE 130 Basketball
Students learn basic techniques (receiving, passing, dribbling, shooting), rules and strategies of the game. Credit units: 1 ECTS Credit Units: None. Aut (K. Eynak) Spr (K. Eynak, K. Velioğlu)
PE 135 Volleyball
This course is aimed at teaching the basic techniques (receiving, passing, serving, smash, block), rules and strategies of the game. Credit units: 1 ECTS Credit Units: None. Aut (Ö. Mihalliççik) Spr (Ö. Mihalliççik)

PE 160 Strength Training
Students learn basic concept and principles, and benefits of strength training. Major muscle groups, how strength gain occurs, techniques and methods of training will be covered. Credit units: 1 ECTS Credit Units: None. Aut (A. Bilen) Spr (A. Bilen)

PE 170 Turkish Folk Dancing
Introduction to famous Turkish folk dances (Antep, Adıyaman, Zeybek, Kağlas, Horon, etc.) from different regions of Turkey. Students will become aware of the cultural aspects and appreciate the traditional values of this multicultural society. Credit units: 1 ECTS Credit Units: None. Aut (E. Akgün, M. Koşma)

PE 175 Aerobics / Step
The course focuses on the basic principles of aerobic exercises and fitness. The routines incorporate basic movements from a wide variety of dance form – folk, modern, jazz, ballet, disco – along with other whole body movements, like hopping, stepping up on a bench, arm movements, skipping, running and jumping. The dances also contain stretching and body-toning movements worked into the choreography, so as to provide a total body workout. Credit units: 1 ECTS Credit Units: None.

PE 176 Beginning Yoga
The purpose of this course is to enhance the students overall wellbeing, concentration and performance by improving their breath capacity and postural awareness. The students will be able to learn how to improve their life / health, strength, flexibility-balance not only on the mat but also during daily activities, (when there is so much expectation, pressure and studying during the semester) only by practicing basic yoga postures, simple breathing techniques and meditation. Credit units: 1 ECTS Credit Units: None. Aut (S. Günlaltay) Spr (S. Günlaltay)

PE 177 Intermediate Yoga
The purpose of this course is to enhance the students overall wellbeing, concentration and performance by improving their breath capacity and postural awareness. The students will be able to learn how to improve their life / health, strength, flexibility-balance not only on the mat but also during daily activities, by practicing intermediate yoga postures, the mind will be channeled to improve concentration, proprioceptive and introspective aspects of their physical and emotional self, by using digital pranayama techniques and mindfulness meditation techniques. Credit units: 1 ECTS Credit Units: 1. Spr (S. Günlaltay)

PE 178 Beginning Pilates
This course based on the Pilates principles of strengthening and flexibility. The class will focus on developing core strength but involves a complete mindful whole body workout. The students will be able to learn how to improve their life / health, strength, flexibility-balance not only on the mat but also during daily activities. Credit units: 1 ECTS Credit Units: 1. Spr (A. Bilen, Y. Y. Doyan)

PE 185 Fencing
The course aims to provide information about basic movements and techniques of fencing. Rules of competition, safety precautions and proper use of equipment will be covered. Students will also develop an appreciation of the sport. Credit units: 1 ECTS Credit Units: None. Aut (H. Şener)

PE 192 Aikido
The purpose of this courses is to teach the basic principles, techniques and movements of Aikido. By participating in this self defense course, the students will improve their strength and flexibility, gain self confidence, respect for self and others and develop an appreciation of the sport. Credit units: 1 ECTS Credit Units: 1. Aut (T. Evyapan) Spr (T. Evyapan)

PE 195 Taekwondo
Students learn basic principles, techniques and movements of self defense. Fitness, strength and flexibility are improved. They will gain self confidence, respect for self and others and develop an appreciation of the sport. Credit units: 1 ECTS Credit Units: None. Spr (Staff)

PE 205 Orienteering
Student will develop the knowledge and competencies needed to be successful at the orienteerin. Student will develop cognitive skills needed to navigate with map and compass. They will also know and practice safety measures needed to participate in this course. Credit units: 1 ECTS Credit Units: None. Aut (N. Fenmen) Spr (N. Fenmen)
The following courses are not department-specific and are offered across departments and in some cases, across faculties. Some of these courses, ”GE 100 - Orientation”, GE250 and GE251 are required for all university students.

**GE 100 Orientation**
This course must be taken by all students in their first year at the university. It is designed to acclimate them to the university’s academic and social environment. Students are required to complete a minimum number of activities to pass the course. These activities include talks by university administrators and guest speakers, workshops, concerts and tours of departments where students get detailed information about the curriculum and meet the staff. Participating in sports activities and using the university’s computing facilities and the library is also part of the orientation program. The complete set of activities is provided and the required minimum indicated in the orientation handbook. 

Credit units: 1 ECTS Credit Units: 1. Aut (Staff) Spr (Staff)

**GE 220 Environmental Science**
This course provides students with the fundamental scientific knowledge to understand the natural functioning of the biosphere to relate negative environmental impacts to specific human activities and to identify more sustainable technologies. Fundamental concepts of environmental economics and management are also presented. The course draws attention to how scientific knowledge and uncertainties are used in the political decision making. 

Credit units: 3 ECTS Credit Units: 5.

**GE 250 Collegiate Activities Program I**
This course provides the ground for students to engage in diversity, creativity and commitment outside the coursework. It entails participation in various activities provided mainly by student clubs. Thus students are active in designing and shaping the course as well as monitoring and grading student performance. Grading is based on points accumulated by participation to activities. GE 250 is mandatory for all four-year students and is to be taken in the third semester. It is the prerequisite of GE 251. GE 250 is a non-credit, pass/fail course. See http://bilkent.edu.tr/ge250 for more information.

Credit units: None ECTS Credit Units: 1. Aut (Staff) Spr (Staff)

**GE 251 Collegiate Activities Program II**
This is the second part of the GE 250/251 program. The points accumulated during GE 250 and GE 251 in total is converted to a grade. See GE 250. Credit units: 1 ECTS Credit Units: 2, Prerequisite: GE 250. Aut (Staff) Spr (Staff)

**GE 301 Science Technology and Society**

Credit units: 2 ECTS Credit Units: 1. Aut (H. Özaktaş, N. Y. Yalım)

**GE 304 Technology Society and Professional Development Seminar**
Seminar course featuring guest speakers from industry, business, government, or non-governmental organizations, as well as academicians. The seminars either contribute to students’ professional or career development or perspectives; discuss current issues, trends, or challenges in technology; or are related to the social, political, cultural, ethical, legal, economic, environment and sustainability, health and safety, reliability or similar dimensions of technology and engineering. 

Credit units: 1 ECTS Credit Units: 1. Spr (H. Özaktaş)

**GE 401 Innovative Product Design and Development I**
The first one of a sequence of two courses - namely GE 401 and GE 402. Fundamentals of design - from the conception of an idea to a marketable end product within the framework of a simulated start-up company. Inception of a start-up company. Business plan preparation; fundamentals of project management; product design stages; incorporation of standards, quality directives, social and environmental factors. Seminars by experts in the field. Concept demonstration of the end-product. 

Credit units: 3 ECTS Credit Units: 6, Prerequisite: (EEE 212 and EEE 313 and EEE 321) or (CS 202 and CS 319) or (IE 271 and IE 375) or MAN 321 or ECON 301 or GRA 301 or COMD 305. Aut (J. Aksiyote, Ö. T. Baycan, H. A. Güvenir, Y. Karpal, T. Reyhan)

**GE 402 Innovative Product Design and Development II**
The second one of a sequence of two courses - namely GE 401 and GE 402. Presentation of the simulated companies to potential investors of a virtual stock market at a ”Traders’ Conference”. The simulated start-up companies are listed in a virtual stock market immediately after the ”Traders’ Conference”. Simulation of
GE 440 | Transdisciplinary Senior Project on Globalization
This is a one-semester course offered to senior students in Departments of Economics, International Relations and Political Science and Public Administration. It is designed to enhance students’ transferable skills in learning beyond their disciplinary boundaries and applying theoretical material to real life issues. Students form teams and prepare a senior project working with supervisors from different fields. The chosen theme for GE 440 is "Globalization". Globalization involves the intermeshing of various aspects of peoples’ lives regardless of their geographic location. In the globalizing world, people, capital, cultures, ideas are travelling in an unprecedented level. So are crime, global warming, and diseases. Globalization with advantages and disadvantages shapes and transforms us and the world we live in. In this course, teams study and explore different dimensions of these complex transformations and resistances in a transdisciplinary manner. Credit units: 6 ECTS Credit Units: 12. Aut (I. Reyhan)

GE 442 | Transdisciplinary Senior Project on Negotiation
This is a one-semester course offered to senior students in Departments of Economics, International Relations and Political Science and Public Administration. It is designed to enhance students’ transferable skills in learning beyond their disciplinary boundaries and applying theoretical material to real life issues. Students form teams and prepare a senior project working with supervisors from different fields. The chosen theme for GE 442 is "Negotiation". Negotiation is a communicative process used for dispute resolution applied to almost every aspect of social, economic and political life. The academic literature on the topic is highly interdisciplinary as well. The course aims at teaching students a basic understanding of negotiation in a theoretical and applied manner. The theoretical part of the course will cover three main disciplinary perspectives: game-theoretic bargaining models, social-psychological dynamics and intercultural communication. Credit units: 6 ECTS Credit Units: 12. Spr (Staff)

GE 443 | Transdisciplinary Senior Project on Social Challenges in Turkey
This is a one-semester course offered to senior students in Departments of Economics, International Relations and Political Science and Public Administration. It is designed to enhance students’ transferable skills in learning beyond their disciplinary boundaries and applying theoretical material to real life issues. Students form teams and prepare a senior project working with supervisors from different fields. The chosen theme for GE 443 is "Social Challenges in Turkey". Resolving national challenges and designing policies to overcome such challenges requires mobilizing the common expertise of various areas of knowledge of economics, international relations and political science. In this course, students will explore Turkey’s challenges and propose solutions to these challenges within an interdisciplinary framework. Credit units: 6 ECTS Credit Units: 12. Aut (H. T. Bölükbaşı, J. W. Day, I. Ö. Özdamar, S. Sayek Böke)

GE 471 | Business and Legal Considerations for Technology Startups
This course is geared towards the needs of students from different disciplines who are interested in acquiring the strategic and legal knowledge, and developing a set of practical skills necessary for designing, launching and growing innovation-based technological ventures ("IBTVs"). The course comprises the following parts: (i) the formation and financing mechanisms of start-up ventures, (ii) the selection, design and R&D of the IBTV's product or business model, and (iii) the legal aspects of patent and other exclusivities that are of material importance to the IBTV. The course has a greater focus on the organizational and legal aspects of the IBTV. The intent is to impart critical organizational and legal knowledge to the founders or advisors of an IBTV who must often surmount complex issues in areas outside their traditional bases of learning. Credit units: 3 ECTS Credit Units: 6. Spr (Staff)

GE 590 | Academic Practices
This course aims to contribute to the preparation of graduate students for academic studies and research. It includes practical classroom teaching, practical lab assistance and teaching, and provides practice in conducting examinations and grading assignments. Credit units: None ECTS Credit Units: None. Aut (Staff) Spr (Staff)
GE 690    Academic Practices
This course aims to contribute to the preparation of doctoral students for their academic careers. It includes practical classroom teaching, practical lab assistance and teaching, and provides practice in conducting exams and grading assignments. Students also attend various research seminars or scholarly talks offered regularly at the departments. In addition, students participate in a series of independent modules including workshops, short courses, and seminars in the Fall and Spring semesters. These include "Academic Integrity," "Effective Teaching," and other topics such as doing literature searches and publishing.  

Credit units: None ECTS Credit Units: None. Aut (Staff) Spr (Staff)
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Bilkent University Campus Plan
Main Campus

A  Faculty of Economics, Administrative, and Social Sciences (10b)
B  Faculty of Law (11c)
   Computer Center (11c)
EA Faculty of Engineering (9c)
EB Mücadele Auditorium and Classrooms (9c)
EE Electrical and Electronics Engineering (9c)
F  Faculty of Art, Design, and Architecture
   (Blocks A-B-C-D-F) (11b)
G  Vocational School of Computer Technology and Office Management (10c)
   Faculty of Education (10c)
H  Faculty of Humanities and Letters (10c)
   Library (10c)
L  School of Applied Languages (Blocks A-B-C) (10c)
M  Faculty of Business Administration (10b)
S  Faculty of Science (Blocks A-B) (11c)
SL Advanced Research Laboratory (11c)
SM Nanotechnology Research Center (11c)
SN Nanotechnology Research Center (11c)
SU  Inst. of Materials Science and Nanotechnology (11c)
U  Dean of Students' Office (9c)
V  Lecture Halls (10b)
101 Rector's Office (9c)
102 Administrative Units (13b)
103 Registrar's Office (13b)
104 Office of Int. Students and Exchange Prog. (13b)
105 International Center (9c)
106 Dormitory Administration (12b)
107 Student Union (9c)
109 Career Center (9c)
131 Health Center (Building T) (10c)
132 Pharmacy (10c)
154 Main Campus Entrance (14c)
201 A la Carte Restaurant (9c)
202 Marmara Restaurant (9c)
203 Cafe In (9c)
204 Express Cafe (10c)
206 Mozart Cafe (11c)
207 Food Court (Speed-Kıracı) (11b)
208 Express Cafe (11b)
209 Sofa Cafe and Restaurant (11b)

Middle Campus and Faculty Housing

P  Faculty of Music and Per. Arts (8b)
   Bilkent Concert Hall (8b)
ODN  Bilkent ODEON (7d)
108  Psy. Counseling and Dev. Center (8d)
212  Mozart Cafe (8b)
213  University Club (7d)
223  FMPA Table d'hôte Cafeteria (8b)
307  Outdoor Tennis Courts (8d)
417  Taxi (8b)
501  Bilkent Nursery (8c)
510  Music and Ballet Primary School (7d)
511  Music and Perf. Arts High School (8b)
J-1–38  Faculty Housing (7d, 8c, 8d, 9d)
J-39–42  Faculty Housing (6d, 7d)
J-43–46  Faculty Housing (8c, 8d)
J-101–106  Faculty Housing (6c, 7c)
603  UNICEF National Committee (9c)
604  Greenhouse Nursery (8c)
605  Meteksan Market (8c)
210  Sözeri Kebab (13c)
211  Cafe Alis (10b)
221  Mozart Cafe (9c)
222  Starbucks Coffee (10b)
224  Coffee Break (10c)
225  75th Dorm Canteen (12b)
226  76th Dorm Canteen (12b)
227  Sport Field Table d'hôte Cafeteria (12b)
228  Asmalı Konak Cafe (11b)
231  Coffee Break (10c)
232  Fiero Cafe (10c)
301  Student Dormitories Sports Center (13b)
302  Sports Center (11b)
304  Sports Fields (12b)
305  Football Field (14b)
306  Indoor Tennis Court (11b)
310  Indoor Tennis Court (13b)
411–414  Bus Stop (11c, 9c, 9d, 11b)
502  Bilkent Pre-School (13b)
507–518  Student Dormitories (11b)
508  Yapi Kredi Bank (9c)
509  Garanti Bank (10c)
506  Meteksan Bookstore (11b)
507  PTT (Post Office) (13b)
508  Mescit (10b)
701–703  Cyberpark (Blocks A-B-C) (11c, 12c)
705  Tepe Group (12c)
706  Meteksan Group (11d)

East Campus

C  School of English Language (4b)
D  School of English Language (4b)
N  School of Eng. Language (Blocks A-B-C) (4b)
   Library (KE) (4b)
R  Vocational School of Tourism and Hotel Services (Blocks A-B-C-D-E) (4c)
   School of Applied Technology and Management (Blocks A-B-C-D-E) (4c)
133  Health Center (Building C) (4b)
155–156  East Campus Entrance (4c, 4b)
214  Le Piment Rouge Restaurant (4c)
215  Mozart Cafe (4b)
216  Cafe Alis (4b)
217  Bilimtir Catering Centre (4b)
218  Coffee Break (4c)
219  Mozart Cafe (4b)
220  90th Dorm Cafeteria (5b)
230  East Campus Housing Kiosk (5a)
303  Sports Center (4b)
308  Sports Fields (5b)
309  Outdoor Tennis Courts (5b)
415–416  Bus Stop (4b)
503  IDF Bilkent Primary School (5b)
504  IDF Bilkent High School (4b)
505–509  Bilkent Lab. and International School (BLIS) (5a, 6a)
Y-90–93  Student Dormitories (5b)
J-A-L  Faculty Housing (5a, 6a)
609  Mescit (4b)
804  Bilkent Hotel (3c)