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## ACADEMIC CALENDARS 2005 - 2006

### ALL PROGRAMS (except English Language Preparatory Program and School of Applied Languages Basic French Section Program)

#### Autumn Semester
- **8 - 10 September 2005**: Required Introduction to Academic Life Program for all students entering in 2005
- **8 - 11 September 2005**: Online course registration for continuing students
- **12 September 2005**: Classes begin
- **17 September 2005**: Continuation of Required Introduction to Academic Life Program for all students entering in 2005
- **23 September 2005**: Last day for adding/dropping courses
- **28 October 2005**: No classes after 12:30
- **29 October 2005**: National Holiday
- **2 November 2005**: No classes after 12:30
- **3 - 5 November 2005**: Holiday
- **10 November 2005**: Commemoration of Atatürk
  - All classes meet as scheduled
- **6 December 2005**: Last day to withdraw from courses
- **19 December 2005**: Follow Thursday classes
- **20 December 2005**: Classes end (Follow Friday classes)
- **21 December 2005**: Beginning of final examinations
- **30 December 2005**: End of semester
- **4 January 2006**: Last day for submission of semester grades

#### Spring Semester
- **26 - 27 January 2006**: Online course registration
- **30 January 2006**: Classes begin
- **13 February 2006**: Last day for adding/dropping courses
- **27 - 31 March 2006**: Mid-semester break
- **28 April 2006**: Last day to withdraw from courses
- **12 May 2006**: Classes end
- **13 May 2006**: Beginning of final examinations
- **19 May 2006**: National Holiday
- **25 May 2006**: End of academic year
- **30 May 2006**: Last day for submission of semester grades

#### Summer School
- **1 - 2 June 2006**: Registration
- **5 June 2006**: Classes begin
- **21 July 2006**: Classes end
- **22 - 26 July 2006**: Final examinations
- **28 July 2006**: Last day for submission of semester grades
<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>31 Aug. - 5 Sept. 2005</td>
<td>Summer School continues</td>
</tr>
<tr>
<td>31 Aug. - 1 Sep. 2005</td>
<td>Registration for 2004 registered students</td>
</tr>
<tr>
<td>6 September 2005</td>
<td>BUSEL Exemption Exam Stage 1 (09:00)</td>
</tr>
<tr>
<td>6 September 2005</td>
<td>BUSEL Exemption Exam Stage 1 results announced (20:30)</td>
</tr>
<tr>
<td>7 September 2005</td>
<td>BUSEL Exemption Exam Stage 2 (COPE) (11:00)</td>
</tr>
<tr>
<td>12 September 2005</td>
<td>BUSEL Exemption Exam Stage 2 results announced (COPE) (11:00)</td>
</tr>
<tr>
<td>31 Aug. - 1 Sep. 2005</td>
<td>Registration for 2004 registered students</td>
</tr>
<tr>
<td>6 September 2005</td>
<td>BUSEL Exemption Exam Stage 1 (09:00)</td>
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<td>BUSEL Exemption Exam Stage 2 results announced (COPE) (11:00)</td>
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</tr>
<tr>
<td>12 September 2005</td>
<td>BUSEL Exemption Exam Stage 2 results announced (COPE) (11:00)</td>
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**Autumn Semester**

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
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</thead>
<tbody>
<tr>
<td>15 September 2005</td>
<td>Course 1 classes start</td>
</tr>
<tr>
<td>26 September 2005</td>
<td>Last day of late registration</td>
</tr>
<tr>
<td>28 October 2005</td>
<td>Holiday. No classes after 12:30</td>
</tr>
<tr>
<td>2 - 5 November 2005</td>
<td>Holiday</td>
</tr>
<tr>
<td>14 - 18 November 2005</td>
<td>Course 1 exam week</td>
</tr>
<tr>
<td>21 November 2005</td>
<td>Course 2 classes start</td>
</tr>
<tr>
<td>9 - 13 January 2006</td>
<td>Holiday</td>
</tr>
<tr>
<td>19 January 2006</td>
<td>Semester 1 COPE (09:00)</td>
</tr>
<tr>
<td>25 January 2006</td>
<td>COPE results announced (17:30)</td>
</tr>
<tr>
<td>25 - 27 January 2006</td>
<td>Course 2 exam week</td>
</tr>
<tr>
<td>27 January 2006</td>
<td>End of semester</td>
</tr>
<tr>
<td>30 Jan.- 10 Feb. 2006</td>
<td>Semester break</td>
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</table>

**Spring Semester**

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>13 - 14 February 2006</td>
<td>Registration</td>
</tr>
<tr>
<td>15 February 2006</td>
<td>Course 3 classes start</td>
</tr>
<tr>
<td>24 February 2006</td>
<td>Last day of late registration</td>
</tr>
<tr>
<td>17 - 21 April 2006</td>
<td>Course 3 exam week</td>
</tr>
<tr>
<td>24 April 2006</td>
<td>Course 3 classes start</td>
</tr>
<tr>
<td>19 May 2006</td>
<td>National Holiday</td>
</tr>
<tr>
<td>14 - 16 June 2006</td>
<td>Course 4 exam week</td>
</tr>
<tr>
<td>19 June 2006</td>
<td>Semester 2 COPE (09:00)</td>
</tr>
<tr>
<td>23 June 2006</td>
<td>Semester 2 COPE results announced (17:30)</td>
</tr>
<tr>
<td>23 June 2006</td>
<td>End of semester</td>
</tr>
</tbody>
</table>

**Summer School**

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
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</thead>
<tbody>
<tr>
<td>19 June - 28 July 2006</td>
<td>Summer School Part I</td>
</tr>
<tr>
<td>29 Aug. - 5 Sept. 2006</td>
<td>Summer School Part II</td>
</tr>
<tr>
<td></td>
<td>(Dependent on University registration dates)</td>
</tr>
<tr>
<td>Date</td>
<td>Event</td>
</tr>
<tr>
<td>-----------------------------</td>
<td>--------------------------------------------</td>
</tr>
<tr>
<td>10 September 2005</td>
<td>French Aptitude Examination (FAE) (09:30)</td>
</tr>
<tr>
<td>13 September 2005</td>
<td>Announcement of FAE Results</td>
</tr>
<tr>
<td>20 September 2005</td>
<td>Registration</td>
</tr>
<tr>
<td>21 September 2005</td>
<td>Classes begin</td>
</tr>
<tr>
<td>26 - 27 October 2005</td>
<td>Midterm I</td>
</tr>
<tr>
<td>28 October 2005</td>
<td>No classes</td>
</tr>
<tr>
<td>29 October 2005</td>
<td>National Holiday</td>
</tr>
<tr>
<td>31 Oct. - 6 Nov. 2005</td>
<td>Holidays</td>
</tr>
<tr>
<td>10 November 2005</td>
<td>Commemoration of Atatürk</td>
</tr>
<tr>
<td>6 - 7 December 2005</td>
<td>Midterm II</td>
</tr>
<tr>
<td>6 January 2006</td>
<td>Last day of classes</td>
</tr>
<tr>
<td>17 - 18 January 2006</td>
<td>Final Exams</td>
</tr>
<tr>
<td>20 January 2006</td>
<td>Exam Results/End of semester</td>
</tr>
<tr>
<td>13 February 2006</td>
<td>Registration</td>
</tr>
<tr>
<td>14 February 2006</td>
<td>Classes begin</td>
</tr>
<tr>
<td>21 - 22 March 2006</td>
<td>Midterm I</td>
</tr>
<tr>
<td>25 - 26 April 2006</td>
<td>Midterm II</td>
</tr>
<tr>
<td>19 May 2006</td>
<td>National Holiday</td>
</tr>
<tr>
<td>2 June 2006</td>
<td>Classes end</td>
</tr>
<tr>
<td>5 - 6 June 2006</td>
<td>Final exams</td>
</tr>
<tr>
<td>9 June 2006</td>
<td>Exam Results/End of semester</td>
</tr>
</tbody>
</table>
HISTORICAL BACKGROUND

Bilkent University was founded on October 20, 1984 by İhsan Doğramacı, through the resolution of the foundations which had earlier been established by him. The establishment of this private university was later approved by an act of Parliament. 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.”

It had long been an objective of the founder to establish a private university distinguished by its high quality education and research. The founder, himself an academician by profession, had earlier contributed to the establishment of numerous public institutions of higher learning and served as rector of Ankara University, chairman of the Board of Trustees of the Middle East Technical University and founder and first rector of Hacettepe University.

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 undertook construction, on the future site of Bilkent, of the buildings which now house administrative offices, the Faculty of Engineering, and the library. Construction of residences for academic staff, cafeterias, student dormitories, the Student Union building and various academic buildings followed in rapid succession.

In October 1986 Bilkent University admitted its first students. That year there were 386 undergraduate and graduate students. Currently there are over 10,000 students in nine faculties, two four-year professional schools, two two-year vocational schools and the School of English Language plus six graduate schools (called institutes). Among them are foreign students from 72 countries. With funds from the endowments provided by the founder, the university each year awards full scholarships to over 2,500 students of high academic achievement.

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. Beginning in the second year of instruction, the practice of student evaluation of courses and instructors, at the time not a common practice in Turkey, was instituted.

To promote the enrichment of teaching and research programs, Bilkent University entered into collaborative projects and exchange programs with many universities abroad. Bilkent has student exchange agreements with the University of California system, Purdue, Johns Hopkins, University of Maine, University of Rhode Island, University of Texas at Austin, University of Missouri, Bowling Green State University, Georgia Institute of Technology, Carthage College, Franklin and Marshall College in the US; University of Laval and McGill University in Canada; Odense University in Denmark; University of Alicante in Spain; and Tel-Aviv University in Israel. Bilkent is a member of NIBES (Network of International Business and Economic Schools) and exchange programs are established with Pforzheim University in Germany and the Ecole Supérieure de Commerce de Clarmont and the Ecole Supérieure de Commerce de Lille of France. The university also has a communications office at 350 5th Avenue, Empire State Building in New York City, equipped with interactive video conferencing capabilities. A number of courses are delivered through this office via satellite connection.

To meet the expanding needs of the university, construction has continued throughout the years since the admission of the first students. New buildings and facilities include two gymnasiums; the Faculties of Humanities and Letters, Economics, Administrative and Social Sciences, Art, Design and Architecture, Science, the Computer Center, and Music and Performing Arts; a Concert Hall for the Bilkent Academic Symphony Orchestra; a secondary school, a preschool and nursery; new dining facilities; two health centers and a pharmacy; and the East Campus which has additional classroom space, catering facilities, and student and faculty housing.

The Career Development and Placement Center, another service established at the incentive of Bilkent’s founder early in the University’s development, helps final-year students to acquire the skills necessary to apply successfully for a job. The Center arranges interviews between representatives
of major corporations and students seeking employment.
Each year, more than 1,600,000 high-school graduates take the national examination to enter the
53 state and 24 private universities in Turkey. Bilkent gets many of the very best of these students.
For example, in the 2005 examination, 32 of the top 100 scorers chose Bilkent.
The faculty is comprised of an academic staff from 43 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 continues to be first in Turkey in number
of published papers per faculty member and ranks high internationally.

NON DISCRIMINATION STATEMENT

Bilkent University hires academic and administrative staff and admits students regardless of gender,
race, color, national or ethnic origin 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, race, color, 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 sixteen-week semesters, Autumn and Spring, that include the
 final examination period. In addition, a seven-week summer semester is offered each year. The
 academic calendar for 2005-2006 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).

Students must fulfill all the degree requirements determined by their department; 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
two 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
- Faculty of Humanities and Letters
- Faculty of Law
- Faculty of Music and Performing Arts
- Faculty of Science
- School of Applied Languages
- School of Applied Technology and Management
- Vocational School of Computer Technology and Office Management
Vocational School of Tourism and Hotel Services

In addition, the School of English Language offers a vocational degree in English and Translation Studies for students registered in this two-year program. Study at the vocational schools leads to an Associate of Arts or Associate of Science vocational degree.

Graduate Programs

Students who have obtained either a B.A. or B.S., or 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, respectively.

The graduate programs are administrated through:

- Graduate School of Business Administration
- Institute of Economics and Social Sciences
- Graduate School of Education
- Institute of Engineering and Science
- Institute of Fine Arts
- Institute of Music and Performing Arts

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

ADMISSION, TUITION, FEES AND ACADEMIC REQUIREMENTS

ADMISSION, TRANSFER STUDENTS, AND REGISTRATION

Language Proficiency

Students whose level of English is insufficient are required to enroll in the School of English Language. Those accepted to the School of Applied Languages 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 applicants to the Faculties of Engineering; Science; Economics, Administrative and Social Sciences; Business Administration; Humanities and Letters; the School of Applied Languages and the School of Tourism and Hotel Management must take the entrance examination (ÖSS) administered by the national Student Selection and Placement Center (ÖSYM). Based on the results of this exam, ÖSYM places students according to their preferences.

International applicants must take the Foreign Students’ Entrance Examination (YÖS) in English or Turkish administered by ÖSYM. The Board of Admissions at ÖSYM evaluates the YÖS results to determine eligibility for enrollment. Those examinations are held in Ankara as well as in many other cities. For more information or to receive the application form, write to: ÖSYM - YÖS, 06538 Ankara, Turkey. For those who could not take this examination are advised to inquire about late admissions to the Registrar’s Office.

Applicants to the Faculties of Art, Design and Architecture and of Music and Performing Arts must successfully pass the ÖSS examination. Admission is then granted on the basis of aptitude tests administered by the respective faculty.
Applicants to vocational school programs are also placed by ÖSYM, based on their ÖSS scores. There is no application fee for first-year undergraduate students since they are placed by ÖSYM.

Graduate Admissions

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

- All Turkish applicants are required to take the LES (Lisansüstü Eğitim Girişim Sınavı - Postgraduate Education Entrance Exam) given by ÖSYM every year.
- Submission of GRE or GMAT scores is required of international applicants and may be required for domestic applicants.
- Fluency in written and oral English. TOEFL (Test of English for Foreign Language) scores are required for non-native English speakers who cannot take the local test.

In addition, each department establishes its own criteria for admission and departmental listings include more detailed information about these.

Application forms can be obtained either from the Graduate Admissions Office or through the Internet: http://www.bilkent.edu.tr/gradapp.html.

Transfer Students

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

- The applicant must have successfully completed at least one full year (two semesters) at an accredited university. No transfers are allowed for the freshman year. The academic standards and the course structure of the university must be equivalent to those of Bilkent University.
- Transfer applications submitted to the Registrar's Office must be completed until mid August. 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.

In order for a transfer application to be considered, the applicant must submit the following:

1) Completed application form
2) Receipt for the Application Fee: Non-refundable application fee of $60 (U.S.) + %8 VAT deposited in one of the following accounts:
   - Yapı Kredi Bankası Bilkent Branch
     Account No: 5683-8
   - İş Bankası Bilkent Branch
     Account No: 73512
   - Garanti Bankası Bilkent Branch
     Account No: 9098108
3) Official transcript from current University.
4) Official catalogue descriptions of courses that appear on your transcript.
5) Copy of SAT score (optional)
6) Official document indicating that applicant has faced no disciplinary action.
7) Bilkent University is an English medium University. Therefore, applicants are required to provide a proof of their proficiency in English by presenting their TOEFL scores (213 + TWE 4 or above), or other internationally accepted proficiency exam scores. Those who are not proficient in English are required to attend the Bilkent Preparatory School until they prove proficiency in English Language.
8) Copy of the passport.

A photocopy of the bank receipt should be sent to the Registrar’s Office of Bilkent University with the other required documents.

All international students must obtain a student visa from a Turkish Consulate in their country of residence. Allow for 6-8 weeks for visa procedures.

**Exchange Programs**

The Student Exchange Program gives students the opportunity to study abroad while experiencing a culture different from their own. It also exposes visiting students to the culture, art and history of Turkey.

Students who have at least a CGPA of 3.00 and are currently in their second year are eligible to apply to the program to spend a semester abroad in their third year. Bilkent has student exchange agreements with the following universities: Brandeis University, Bowling Green State University (Tourism and Hotel Management, English Language and Literature, and American Language and Literature students), the University of California (Berkeley, Davis, Irvine, Los Angeles, Riverside, San Diego, San Francisco, Santa Barbara, and Santa Cruz campuses), Carnegie Mellon University (Engineering internship only), Carthage College, Case Western Reserve University, University of Chicago (History students only), Franklin and Marshall College, Georgia Institute of Technology, Johns Hopkins University (Engineering, Arts and Science students), University of Maine, University of Michigan, Michigan State University The Eli Broad College of Business, University of Missouri-Rolla, Purdue University, Rensselaer Polytechnic Institute (Engineering students only), the University of Texas at Austin, Universite Laval (Canada), McGill University (Canada), University of Southern Denmark (business students only), Ecole Supérieure de Commerce de Clermont (business students only) (France), Ecole Supérieure de Commerce de Lille (business students only) (France), University Pantheon-Assas Paris II (France), Heidelberg University (Germany), Pforzheim University (business students only) (Germany), Amsterdam University (The Netherlands), Inholland University (The Netherlands), University of Maastricht Faculty of Economics and Business Administration (business students only) (The Netherlands), Tilburg University (The Netherlands), University of Twente (The Netherlands), Institut Libre Marie Haps (Belgium), University of Turku (Finland), and Tel-Aviv University (MBA students only) (Israel).

The principle of reciprocity inherent in the exchange programs makes it possible to send Bilkent University students to the above 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 the insurance expenses and other minor fees while at the host university.

To apply, applicants must submit a CV, a statement of purpose, and a transcript along with their application forms to the Registrar’s Office.

**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.

Students with acceptable excuses for late registration may register up to the final date for adding courses.
FEES AND FINANCIAL ASSISTANCE

Fees and Expenses
Fees and expenses for the 2005-2006 academic year are as follows:

Tuition:
- Turkish citizens: 13,000 YTL + 8% VAT
- International Students: $10,200 (U.S.) + 8% VAT

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

On Campus Housing:
- Four-bed room (per person): 1,260 YTL + 8% VAT
- Double room (per person): 2,650 YTL + 8% VAT
- Single room: 5,500 YTL + 8% VAT
- Single with bath (Dorms # 90, # 91): 6,100 YTL + 8% VAT
- Suite Room (Dorms # 52, # 64): 9,200 YTL + 8% VAT
- Single Room with bath & kitchenette (Special Dorm): 8,750 YTL + 8% VAT
- Suite Room (Dormitory # 93): 11,340 YTL + 8% VAT

Payable before occupancy in full (no installments).

In addition, expenses for meals, books and miscellaneous necessities should be taken into account.

Financial Assistance
Bilkent University is a non-profit institution supported by endowments from the Foundations. Students may be eligible for a tuition subsidy from the Foundations.

COURSE PROGRAMS, GRADING, AND GRADE POINT AVERAGE

New Student Orientation
All incoming students are required to take the "GE 100 - Orientation" course in their first year. This course is designed to adapt students to the university's academic and social environment. Students learn the responsibilities of studying at a university, get information on the facilities and services available to them and are introduced to their new surroundings.

Academic Advisor
At Bilkent University each student is assigned to an academic advisor. The advisor offers counseling services to the student in academic matters, takes an interest in the student's selection of courses and academic progress, and eventually assists him/her towards satisfactory job placement.

Course Load
Courses listed in the catalog on a semester basis for each department represent a normal course load. At the proposal of the student's advisor and with the approval of the Chair of the Department, the course load for a semester may be increased or decreased by a maximum of two courses. Should a course load be reduced, the student must at the first opportunity take the course(s) he/she has omitted or dropped. (See section on "Repeating a Course.") For students attending their final semester, the number of courses which may be added or dropped may vary at the proposal of their advisor and with the approval of the Department Chair.

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

Examinations and Assessment
Apart from work conducted throughout the semester, students must take a final examination at the
end of each semester and at least one midterm examination for each course. If a staff member considers it appropriate, practical laboratory work or other such assignments may be assessed as midterm examinations.

Grades are finalized when the student list is signed by the instructor and submitted to the Dean, who sends it to the Registrar's Office. Students are notified of their grades by the Registrar. 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**

The official University grading system uses letter grades with pluses and minuses. Passing grades range from A to D-; F is failing. The quality-point equivalents of the grades are:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>4.00</td>
</tr>
<tr>
<td>B+</td>
<td>3.30</td>
</tr>
<tr>
<td>B</td>
<td>3.00</td>
</tr>
<tr>
<td>C</td>
<td>2.00</td>
</tr>
<tr>
<td>D+</td>
<td>1.30</td>
</tr>
<tr>
<td>D</td>
<td>1.00</td>
</tr>
<tr>
<td>A-</td>
<td>3.70</td>
</tr>
<tr>
<td>B-</td>
<td>2.70</td>
</tr>
<tr>
<td>C-</td>
<td>1.70</td>
</tr>
<tr>
<td>D-</td>
<td>0.70</td>
</tr>
</tbody>
</table>

Undergraduate students who receive a C or a higher grade are considered to have satisfactorily completed that course. A student receiving between a C- and a D- in any course may only be considered successful if he/she has not been on probation during that semester. (See sections on “Repeating a Year” and “Repeating a Course.”)

Other grades used are S (Satisfactory), U (Unsatisfactory), I (Incomplete), P (in Progress) and T (Transfer). 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 for 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 F. At the discretion of the Department Chair, the term specified above may be extended until the beginning of the following semester.

P : given at the end of the first semester of a year long course.
T : reflects approved transferred courses from other universities.
W : given for a course withdrawn by a student subject to the approval of the department chairperson.

**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.

As an example, if the following grades were received by a student in a given semester,

<table>
<thead>
<tr>
<th>Course</th>
<th>Grade</th>
<th>Quality Points</th>
<th>Credits</th>
<th>Product</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELIT 103</td>
<td>B+</td>
<td>3.3</td>
<td>3</td>
<td>9.9</td>
</tr>
<tr>
<td>ELIT 107</td>
<td>C-</td>
<td>1.7</td>
<td>3</td>
<td>5.1</td>
</tr>
<tr>
<td>ELIT 137</td>
<td>B</td>
<td>3.0</td>
<td>× 4</td>
<td>= 12.0</td>
</tr>
<tr>
<td>ELIT 139</td>
<td>B</td>
<td>3.0</td>
<td>3</td>
<td>9.0</td>
</tr>
<tr>
<td>HART 115</td>
<td>C</td>
<td>2.0</td>
<td>3</td>
<td>6.0</td>
</tr>
</tbody>
</table>

Total 16 42.0

to arrive at the semester grade point average (GPA), the products (credits × quality points) are
added and then divided by the number of credits taken. In the above example 42 divided by 16 equals 2.63 (the semester GPA).
The cumulative grade point average (CGPA) – an average of grades from two or more terms – equals the sum of the products of all the grades at Bilkent divided by the total number of credits taken.

HONORS STUDENTS, PROBATION, REPEATING

(This section is applicable to students in undergraduate programs only.)

“Honors” Students
Students achieving distinction by obtaining a semester GPA of 3.00 to 3.49 while carrying a normal course load are referred to as “Honors” students. Those earning an average of 3.50 and above, under the same conditions, are awarded “High Honors.”

“Satisfactory” Students
Students obtaining a GPA of 2.00 or higher at the end of a semester are deemed satisfactory. However, they must repeat any courses for which they have received F or U grades.

Students on “Probation”
Students obtaining a GPA of less than 2.00 at the end of any semester are placed on probation. A student on probation must achieve a GPA of 2.00 or higher in the following semester. Students who have been on probation for two consecutive semesters are considered unsuccessful in courses for which they have received grades between C- and D- or an F or a U.

Repeating a Year
Students on probation who have a semester GPA of less than 2.00 must repeat the preceding two semesters, and must repeat the courses for which they received a grade C- or lower.

Students may repeat years in the course of their studies only twice. They may not, however, repeat the same two semesters more than once. Students unable to satisfy these requirements are dismissed from the University.

Repeating a Course
Students receiving either a grade of F or U in a course must repeat that course the first time it is offered.

To improve their GPA, students may repeat courses previously taken in which they received a grade of C- or lower, within the subsequent two semesters, subject to departmental approval and semester course load constraints. If the course selected to be repeated is an elective or has been cancelled, students may take an equivalent course approved by their Department.

Period 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 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 dismissed from the University. 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). Otherwise, they are dismissed from the University.

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.
To be eligible for graduation, students transferring to Bilkent University from another institution of higher education must study at Bilkent University for at least their final two semesters.

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

As for 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 respective Dean’s Office or School Director. If a decision to grant leave is taken by the Executive Board, notice is given to the Registrar’s Office. Leave may not exceed two semesters at a time, or a total of four semesters for a student's entire study period. Periods which 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 a medical certificate.

**Withdrawal from the University**

Students may withdraw from the University by applying to the Registrar’s Office. However, tuition fees paid are not refundable in such cases.
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 equipment, their hardware and software maintenance, maintenance of software resources such as compilers, utilities and application programs. Additionally, BCC develops in-house application software for the university itself including the academic information system, student information system, library information system and others.

Hardware Resources

UNIX Workstations

Eight high performance file servers include two high performance file and computation servers with 20 CPUs and 1GB RAM each and another high performance server with 4 CPUs and 512 MB RAM. Two high capacity file/storage servers are available on the university network to host the users’ personal files.

More than 100 high resolution graphics-capable UNIX workstations are on the BILNET (Bilkent University campus network) and thus accessible to faculty and students.

Personal Computers

There are approximately 4000 personal computers distributed in offices and laboratories throughout the campus and all are connected to BILNET.

Workstation and PC Laboratories

A UNIX workstation lab and 14 laboratories (approximately 600 computers in total) are administered by BCC and are open to faculty and students, 24 hours a day and throughout the year. All users have access to laser printer pool available in BCC labs and the Computer Center. In addition to the BCC labs, labs run by individual faculties and schools, such as UNIX workstation labs (40 workstations), 12 PC labs (more than 300 PCs) and two Macintosh labs (32 Macs) serve students and faculty around the campus. All computers in the laboratories have BILNET and Internet access.

Networking Capabilities

The campus network is built on a Gigabit Ethernet backbone. This star topology backbone connects all the faculties to the central switch via fiber-optic cables. In each faculty, the fiber-optic Gigabit Ethernet is converted to 100 Mbit Fast Ethernet segments.

There are three terminal servers and a modem pool which provide approximately 100 dial-in connections. Bilkent University has three different connections to the Internet, including a private satellite connection to the USA. All computers on BILNET have direct Internet access.

Wireless network access points are scattered around the campus providing hot spots for the mobile users.

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

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 BILNET 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 one being BLISS (Bilkent Library Information Services System), which enables readers to browse the Bilkent Library catalogs on terminals or WEB pages on the Internet. AIRS (Academic Information Review System), SRS (Student Review System), and SAPS (Student Academic Performance Monitoring System) are the valuable 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 via computer terminals.

Training

BCC offers a variety of training courses to the academic and administrative staff on the PC operating systems and environments, Internet basics and some popular office software on both a regular and as-needed basis.

UNIVERSITY LIBRARY

Phyllis L. Erdoğan, Ph.D., University Librarian

The 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-story building and annex at the center of the Main Campus, is open daily from 8:30 to 23:30 throughout the year. The East Campus branch library, located on the top floor of the Catering Center, is open (week-ends from 9:00) to 23:30 Sunday-Thursday and closes at 17:00 on Friday and Saturday. 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, any place in the world, with access to the Internet. Circulation of the collection is also automated. Internet access is available in both libraries.

The library catalog BLISS can be accessed from the Internet through the Bilkent Web Server at http://bliss.bilkent.edu.tr/search.phtml.

The collection contains over 479,000 items. The book collection, of over 375,000 volumes, has been increasing by 20,000 volumes annually. The library subscribes to over 2,500 journals from the USA and Europe and provides electronic access to 30,000. Over $2 million is spent each year on books, journals and other resources, including video and audio cassettes, DVDs and VCDs, maps, microforms, CD-ROMs, music scores and sound recordings (compact disks, cassettes and phonograph records). The library also makes over 100 databases available on-line, which provide access to both citations, and in some cases, the full texts of journal articles, conference proceedings and papers and research material. Many of these databases are acquired through the library’s membership in the Anatolian University Libraries Consortium. 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 42,000 newspaper clippings, magazine articles and exhibition materials (invitations, posters, catalogs). The collection has been catalogued and is accessible on the Internet.

The Bilkent University Library has been designated by the Library of Congress to receive U.S. Government documents and makes them available in the Government Documents Room. The library is also a depository for World Bank regional publications and houses the Bilkent European Documentation Center.
Materials of special interest to students include catalogs of foreign universities and the “easy reading” section. The newspaper collection includes leading foreign newspapers. 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.

OFFICE OF THE DEAN OF STUDENTS

Perin Öztin, Dean
Haldun Özaktaș, Asst. Dean

The Office of the Dean of Students is the center for students development through a large variety of means where they build their skills, a sense of responsibility, maturity, and belonging along with teamwork efforts in an environment where their imagination and creativity spirits can also be stimulated that will hold them in good stead in the future.

Student Activities
The variety of activities offered on the University 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 a music room, video room, meeting rooms, offices and a conference hall. All the clubs organized to cater to students varying interests and needs are under the umbrella of the Student Union. Some of these clubs include:

- Aviation Club
- Bilkent Scuba Society
- Bridge Club
- Chess Club
- Computers Club
- Environment Club
- MBA Club
- International Relations Club
- Management-Economics Club
- Music Club
- Outdoor Sports Society (DOST)
- Photography Club
- Theater Club
- Cinema 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 (Coordinator: Asuman Erbay)
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 (Advisor: Ayşin Gürbüz)
Radio Bilkent is a university funded, non-profit, voluntary student radio station which is broadcasting on FM frequency 96.6. The broadcasting began in 1995 on FM frequency 106.7; and was limited to the campus and its environs only. Radio Bilkent’s broadcasting frequency was transferred from FM 106.7 to FM 96.6 in April 2002 which allows not only campus wide but also citywide broadcasting. Radio may be listened live through internet at http://radio.bilkent.edu.tr. Radio Bilkent’s studios are located in the Engineering Building top floor, in Main Campus.
Career Development and Placement Center (Coordinator: Yıldız Öztürk Balamir)
The Career Development and Placement Center provides career related services for Bilkent students throughout their university years. To prepare them for entering the business world, the Center offers workshops which focus on employment-seeking skills such as resume writing, interviewing techniques, and career search seminars. Many local and international companies, international organizations, and government agencies use the Center to recruit the graduates: The Center arranges internships to assist interested students in learning about job opportunities first hand and/or gaining practical work experience.

Alumni Center
The Alumni Center provides a network among Bilkent alumni to perpetuate their ties with the University and with one another. To this end, the Center organizes “Alumni Homecoming” and published yearbook every year. The Alumni Center also offers information services for alumni on career-related matters such as developments and new trends in the job market and career profiles.

Student Development and Counseling Center (Coordinator: Berna Malkoç Emiroğlu)
This Center guides Bilkent students through their self-development journey towards unique identities and individualities. It helps them to understand themselves, to become aware of their potential and to apply this information in their academic professional, social and personal lives.

The services offered include individual and group counselling; seminars, workshops, talk groups and written materials for preventive purposes (stress management, coping with examination anxiety, interpersonal communication skills, concentration-study skills and time management, realistic self-evaluation, guidance on intimate relations, restructuring cognitive styles problem solving, how to live with roommates, effective presentation skills, enhancing cognitive skills in learning, stages of life, importance of identity in personality development, etc.)

The Center also conducts survey-type studies to explore the expectations, needs and goals of the students. The outcome of such studies contributes to the ongoing program development in the Center.

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 faculty members. The services are provided free of charge to all Bilkent graduate and undergraduate students.

The Health Center offers the services of a public health specialist, five general practitioners, two gynecologists, two ophthalmologist, a pediatrician, two psychiatrists, two dermatologists, an orthopedist, a dentist, an ENT specialist, and seven nurses. The Centers have two in-house laboratories for immediate medical analyses 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 1, 2 and 3 (the neighboring residential area). A physician and a nurse are both on duty at the Health Centers on the Main and East Campuses 24 hours a day, including weekends. In case of emergencies, there is an ambulance on duty 24 hours a day to take patients, accompanied by Health Centers doctors, to hospitals in Ankara.
Services Provided

- General check-up for students
- 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.

Applying to the Health Center

The Health Center is the first place that students 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 registering at Bilkent becomes a member of the Health Mutual Aid Fund which provides financial support to the Health Center. The Fund pays for routine medical services for students, such as check-up, consultations, medical tests, medicine, 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 Center.

A student who wants an examination by a specialist who has an agreement with the 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 a referral letter to the student which is to be taken to the specialist or hospital along with the student's ID and health membership card.

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.

**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, one indoor tennis court, several outdoor volleyball and basketball courts, three mini football fields, several aerobic/step studios, fitness/conditioning room and multi-purpose rooms, a regulation size grass football field on Main Campus and a 60 m x 40 m multi-purpose grass football field on East Campus. In addition, a new seven thousand square meter multi-purpose sports complex (with a large state of the art fitness center, basketball, volleyball, team handball courts, three squash courts, aerobic/step and program studios and an indoor running-walking track) on Main Campus added to the current facilities in the Fall of 2001.

On-campus activities like courses, training sessions, tournaments and competitions are available in the following sports: tennis, table tennis, squash, American football, football (soccer), badminton, basketball, volleyball, aerobic/step, fitness/conditioning, fencing, taekwondo, aikido, capoeira, yoga, kung fu (wing chun), Turkish folk dancing, ballroom dancing and others. The students can also take many of the sports courses mentioned above as elective-credit courses every semester (see page 443 for details).

**STUDENT HOUSING**

Bilkent University offers undergraduate student housing on campus, in twenty-six dormitories accommodating over 4,250 students. Advice and information about accommodation in dormitories can be obtained from the Student Housing 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 Student Housing 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 a resident supervisor and assistant live in each dormitory in order to provide on-hand support to students.

Rooms are arranged for single, double and four-person occupancy. 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.
Regularly scheduled activities are conducted within each dorm to round out academic programs and to familiarize students with one another and the Bilkent campus and staff. Activities include speakers, group presentations, picnics, charity fund-raisers and team sports.
UNIVERSITY ADMINISTRATION

OFFICERS OF THE UNIVERSITY*

<table>
<thead>
<tr>
<th>Name</th>
<th>Phone Numbers</th>
<th>Email</th>
</tr>
</thead>
<tbody>
<tr>
<td>İhsan Doğramacı, M.D., D.Sc.,</td>
<td>266 4596 - 266 4597</td>
<td><a href="mailto:presid@bilkent.edu.tr">presid@bilkent.edu.tr</a></td>
</tr>
<tr>
<td>F.R.C.P. (Lond.), LL.D.</td>
<td>266 4598</td>
<td></td>
</tr>
<tr>
<td>Chairman of the Board of Trustees and President of the University</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ali Doğramacı, Ph.D.</td>
<td>266 4120 - 266 4121</td>
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</tr>
<tr>
<td>Rector (Chancellor)</td>
<td>290 1200 - 290 1201</td>
<td></td>
</tr>
<tr>
<td>Abdullah Atalar, Ph.D.</td>
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<td><a href="mailto:atalar@bilkent.edu.tr">atalar@bilkent.edu.tr</a></td>
</tr>
<tr>
<td>Provost</td>
<td>266 4125</td>
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</tr>
<tr>
<td>Kürşat Aydoğan, Ph.D.</td>
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</tr>
<tr>
<td>Vice Rector</td>
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</tr>
<tr>
<td>Erol Arkun, Ph.D.</td>
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<tr>
<td>Vice Rector</td>
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</tr>
<tr>
<td>Zeki C. Kuruoğlu, Ph.D.</td>
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</tr>
<tr>
<td>Associate Provost</td>
<td>266 4128</td>
<td></td>
</tr>
<tr>
<td>Güliz Ger, Ph.D.</td>
<td>290 1204 - 290 1205</td>
<td></td>
</tr>
<tr>
<td>Associate Provost</td>
<td>290 1213 - 290 1214</td>
<td></td>
</tr>
<tr>
<td>Cemal Yalabik, Ph.D.</td>
<td>290 1213 - 290 1214</td>
<td><a href="mailto:yalabik@fen.bilkent.edu.tr">yalabik@fen.bilkent.edu.tr</a></td>
</tr>
</tbody>
</table>

*For international phone calls, the local telephone numbers given on the right should be preceded by 90 312, in which 90 is the country code for Turkey and 312 is the area code for Ankara.
DEANS, DIRECTORS AND DEPARTMENT CHAIRS

FACULTY OF ART, DESIGN AND ARCHITECTURE

Dean: Bülent Özgüç, Ph.D. 266 4471 - 290 1486
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Asst. Dean: Halime Demirkan, Ph.D. 290 1465 - 290 1742
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RESEARCH CENTERS

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The Faculty of Art, Design and Architecture comprises five academic departments:

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

These departments offer undergraduate programs that lead to 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 Graphic Design, Interior Architecture and Environmental Design, Painting and Printmaking, and an interdisciplinary doctoral program in Art, Design and Architecture.

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**

Işık Aksoy, Instructor  
B.Arch., Architecture, Middle East Technical University, 1975.

Jülide Aşçıyote, Instructor  

Deniz Altay, Instructor  

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

Genevieve Appleton, Assistant Professor  
M.F.A., Graduate Film and Video Program, York University, 2003.

Zafer Aracagök, Instructor  
M.A., Comparative Literature, University of Oslo, 1993.

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

Sule Aybar, Instructor  

İnci Basa, Assistant Professor  
Ph.D., Architecture, Middle East Technical University, 2000.

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Marek Brzozowski, Assistant Professor

Nilgün Camgöz Olgün Türk, Assistant Professor

Nilgün Çarkacı, Instructor

Gaye Çulcuoğlu, Instructor

Osman Demirbaş, Instructor

Halime Demirkan, Associate Professor

Alexander Djikia, Assistant Professor

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M.S., Communication Design, Pratt Institute, 2000.

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B.S., Science Education, Middle East Technical University, 1989.

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

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Ph.D., English (film studies Emphasis), University of Chicago, 2003.

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Meltem Gürel, Instructor

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Murad Gürzumar, Instructor

İrem Petek Güven, Instructor

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B.A., Landscape Architecture, Ankara University, 1983.

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Orhan İktu, Instructor

Çağrı Imamoğlu, Instructor

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Ph.D. Architecture, University of Tokyo, 1998. Design thinking and representation, space communication design, architecture and urban design, spatial analysis and applied studies in architecture and urban studies.

Nazife Karamullağlu, Instructor

Hazım Murat Karamüftuoğlu, Assistant Professor
Ph.D., Information Science, City University, London, 1998. Design and evaluation of information retrieval systems, computer semiotics, computer mediated communication, philosophical aspects of information systems.

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Ph.D., Graphic Design, Bilkent University, 2002. Film Studies, Cultural Studies.

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Ph.D., Sociology, University of California, Santa Cruz, 1992. Cultural studies, semiotics, mass media.

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Ph.D., Communication, University of Massachusetts, 1996.  
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Sedvan Teber, Instructor  
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Ph.D., (State Doctorate), History of Civilization and Archaeology, University of Human Sciences of Dijon, 1993.  
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Doruk Eker, Industrial Engineering, Başkent University, 2004  
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DEPARTMENT OF COMMUNICATION AND DESIGN


Modern media of communication are a leading force in the contemporary process of globalization. The major aim of the Department of Communication and Design is to educate media professionals who are both knowledgeable about global culture and art, and competent in recent developments in modern technology of communications, especially visual technologies. Students are provided with a wide range of courses on 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 with large format professional cameras and very well-equipped video lab. 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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<th>Autumn Semester</th>
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SECOND YEAR

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<td>Introduction to Video Production Techniques II</td>
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**Third Year Credits / ECTS Credits**

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**Fourth Year Credits / ECTS Credits**

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<td>CS 156</td>
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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 that includes a portfolio presentation and an interview. The date and place of the examination are announced each year by the University. During the interview applicants should present a body of well-defined original work as well as slides, videotapes or photographs of previous work.

**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 maximum duration of program is five semesters.

### FIRST YEAR

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<tr>
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### ELECTIVES

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<td>COMD 514</td>
<td>Identity Space and Image</td>
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<td>COMD 516</td>
<td>Turkish Cinema and Modernity</td>
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<td>Body Movement and Vision in Immersive and Interactive Media I</td>
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### COURSE DESCRIPTIONS

#### UNDERGRADUATE COURSES

**COMD 100**  Basic Design  
An elementary introduction to the principles of visual design and communication. Concepts of form, pattern, color, composition and function. Examination of design problems and development of problem-solving skills in visual design. **Credit units:** 6 ECTS **Credit Units:** 12.

**COMD 101**  Introduction to Visual Communication Design I  
An elementary introduction to the principles of visual design and communication. Concepts of from, 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:** 4 ECTS  
**Credit Units:** 7. **Prerequisite:** COMD 101. **Spr (Staff)**

**COMD 102**  Introduction to 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:** 4 ECTS  
**Credit Units:** 7. **Prerequisite:** COMD 101. **Spr (J. Aksiño, N. Karamullaoğlu)**

**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. Lateral, symbolic and metaphorical communication; visual metaphors. **Credit units:** 3 ECTS  
**Credit Units:** 6. **Aut (O. Gelley)**

**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. **Spr (O. Gelley)**
COMD 205 Basic Photography

COMD 212 Principles of Visual Communication Design
Introduction to the history, theory and principles of communicating visually through art, illustration, photography, design, typography, video and other visual forms. Credit units: 3 ECTS Credit Units: 5.

COMD 221 Visual Communication and Perception
Basic principles of visual communication and several competing theories of visual perception. The role of frames and conventions in visual communication. The impact of cultural and other factors in perception. Development of visual awareness and visual literacy. Learning from misperceptions and illusions as positive errors. Gestalt and information processing theories on the simulation of human perception. Credit units: 3 ECTS Credit Units: 5.

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: . Aut (Staff)

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 (G. Appleton) Spr (G. Appleton)

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. Aut (A. Suner)

COMD 322 Film Theory
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: . Spr (A. Suner)

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 (A. Aral)

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: . Aut (A. Aral)

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 (M. Arısan)

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. Aut (O. Gelley)

COMD 344 Visual Technologies and Visual Narratives

COMD 345 Interpersonal Communication
Main principles and issues of interpersonal communication and self-presentation in everyday life. The interplay of verbal and non-verbal language which operate in face-to-face encounters. The impact of context, the interaction of language and social setting. Performance of self-regulation and self-presentation in everyday communication. Credit units: 3 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. Spr (Staff)

COMD 352 Internet Technologies and Electronic Commerce
The course will cover the technological infrastructure that enables electronic commerce. Issues included are Internet, Intranets, Extranets, search facilities and engines, security, authentication, and privacy, electronic payment systems and electronic commerce services. Organizational challenges on developing appropriate business models are discussed with respect to the simultaneous response and online threats to the existing models. Credit units: 3 ECTS Credit Units: 6. Spr (Staff)

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. Aut (Staff)

COMD 422 Advanced Issues in Communication Studies
This course is designed to introduce students to advanced issues in communication studies and recent research. Topics to be covered may include: revisiting the communication process; audience groups and different interpretations of media messages; ratings system; media practice and democracy; issues of identification, image and visuality; Internet, cyberspace and the impact of recent technologies; digital cinema and digital television; interactive media and media art. Credit units: 3 ECTS Credit Units: 6. Spr (H. M. Karam 피풍요)

COMD 432 Principles of Journalism
A survey of the journalism profession, including the history and study of various media. Emphasis is placed upon journalistic principles, writing, editing, and make up, journalistic values. Credit units: 3 ECTS Credit Units: 6. Spr (A. Aral)

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. Aut (T. P. Moran)

COMD 471 Media Ethics and Responsibility
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. Spr (T. P. Moran)

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. Aut (N.O. Sevimli, A. Treske)

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. Spr (N.Ö. Sevimli, A. Treske)

**GRADUATE COURSES**

**COMD 511 Theory and Method in Media Visual and Cultural Studiesa**
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 effectiveness, signs and significations, 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:. Aut (M. Mutman)

**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:. Aut (A. Suner)

**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:. Spr (A. Suner)

**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 “Yesilcam cinema,” “national cinema,” “social realism,” “Third world cinema,” “women’s films,” “art cinema,” and “the new Turkish cinema.” Credit units: 3 ECTS Credit Units:

**COMD 521 Body Movement and Vision in Immersive and Interactive Media I**
This course examines the role of body, movement and vision in art and traditional digital media including literature, cinema, computer and video games, multimedia and online systems and the Internet. Topics covered include: historical development of digital art and culture; cybernetics and systems theory; digital avant-garde; concepts of virtual and virtuality; theories of immersive and interaction in literature, visual and digital media; perception, attention and memory; conscious and unconscious information processing; design of interactive and immersive systems and user interfaces; computer vision; aesthetics of digital media, information and interactive arts. Credit units: 3 ECTS Credit Units:. Aut (H. M. Karamüftüoğlu)

**COMD 522 Body Movement and Vision in Immersive and Interactive Media II**
This course extends and applies the ideas studied in “Body, Movement and Vision in Immersive and Interactive Media I” to a wide range of contemporary art works that use computer and other forms of high technology. The focus is on critical examination and evaluation of artworks that have been created in the past ten years, however, earlier computer aided artworks are also studied. The course explores the ways in which art, science and technology are converging in the twenty-first century and how they might be integrated in the future. Emerging patterns of integration between art and various scientific disciplines and technologies are studied, but particular emphasis is put on the role of computers in visual arts. Concepts, methods and terminology derived from Critical and media theory, philosophy, science and engineering are introduced to analyse emerging forms of “Hi-Tech” or “Information Art”. Credit units: 3 ECTS Credit Units:. Spr (H. M. Karamüftüoğlu)

**COMD 590 Research Topics**
Credit units: None ECTS Credit Units:

**COMD 599 Master’s Thesis**
Credit units: None ECTS Credit Units:
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 and 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.

The undergraduate curriculum of the Department of Fine Arts offers two program options, *Studio Arts* and *Theory and Criticism*.

In the *Studio Arts* 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. In the *Theory and Criticism* Program, critical and theoretical thinking on art is promoted. Both programs follow the same curriculum during the first two academic years. The student is then expected to specialize in one of the programs according to his/her own interest and ability.

**UNDERGRADUATE CURRICULUM**

**FIRST YEAR**

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<td>FA 131 Technical Drawing and Lettering I</td>
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<td>FA 171 Introduction to Art and Culture I</td>
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<td>GE 100 Orientation</td>
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<td>ENG 101 English and Composition I</td>
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**THIRD YEAR**

**Credits / ECTS Credits**

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**FOURTH YEAR**

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**ELECTIVES**

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GRADUATE PROGRAM

Master of Fine Arts in Painting and Printmaking

The M.F.A. program of the Department of Fine Arts offers the students options to concentrate on two studio areas and/or to concentrate on a theoretical study in art theory. The studio areas are painting and printmaking. The program encourages freedom of expression within a framework of regularly scheduled critiques and open studio classes, and centers around the individual student's work in progress. Both painting and printmaking today encompasses virtually any medium and students are motivated to explore the boundaries of their art making activities. Students are encouraged to view their profession as an adventurous journey and to embrace the inevitable changes which occur in direction and destination as they seek and travel.

Graduate students are offered large studio spaces in which to work. Well recognized artists visit the faculty and offer seminars to graduate students. Twenty-four hour access to the facilities supports personal growth of the students. Emphasis is placed on twentieth century theory in both lecture and studio classes.

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 that includes a portfolio presentation and an interview. The date and place of the examination are announced each year by the University. During the interview the applicants should present a body of well-defined original work as well as slides, videotapes or photographs of previous work. All applicants must have a proof of their English proficiency.

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 maximum duration of the program is five semesters.

COURSES OFFERED

PAINTING OPTION

FIRST YEAR

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SECOND YEAR

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PRINTMAKING OPTION

FIRST YEAR

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Doctor of Philosophy in Art, Design and Architecture

Aims and Objectives: The Ph.D. program in Art, Design and Architecture is basically an interdisciplinary research program open to all candidates holding a Master's Degree in fine arts, design, architecture or a related field. The research done is expected to be either a novel contribution to art and science, or the introduction of a new method, or a completely innovative application of a widely known method to the selected area. The program aims at inquiring into various issues of art, design and architecture, both in theoretical and practical fields by encouraging the students to carry out research in unexplored topics. By investigating pertinent past and current developments in the world and in Turkey within a cross-cultural framework, various aspects of processes in design, implementation, performance and evaluation are examined by students to achieve the objective of producing work, demonstrating competence in research, interpretation and assessment.

Admission Requirements: 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 applicants must have a proof of their English proficiency.

Degree Requirements: The minimum course load for the Ph.D. program is 24 credit units. After completion of the courses, the Ph.D. candidate must take a qualifying examination and make a presentation related to his/her thesis and submit a thesis proposal which will be evaluated by a jury composed of well-known scholars and/or artists in the relevant field. Upon a favorable evaluation by the jury, the candidate will qualify for work towards a Ph.D. thesis. At the completion of the thesis, a similar jury will examine the thesis and the candidate for a final decision on the degree. The maximum duration allowed for the completion of degree requirements is nine semesters. Typical course of study involves the completion of required course work during the first year of the program. The course selection is subject to the approval of the Academic Committee. In the subsequent years, Ph.D. candidates register in ADA 690 (Advanced Research Topics) and/or ADA 699 (Ph.D. Dissertation) for completion of the seminar and thesis requirements.

COURSE DESCRIPTIONS

UNDERGRADUATE COURSES

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. Author: (N. Camgöz Olguntürk, A. Dijkia, M. Gürel, D. Hasirci, C. İstek, H. Karaca, N. Kural, S. Özaloğlu, M. Sladczyk, S. Tanrıöver) Staff

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:
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 (N. Kertselli, H. Misman, I. Veryeri, B. Zalewska-Sladczyk)

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 (N. Kertselli, H. Misman, I. Veryeri, B. Zalewska-Sladczyk)

FA 131  Technical Drawing and Lettering I

FA 132  Technical Drawing and Lettering II

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 total understanding of a particular time and place in history. Credit units: 3 ECTS Credit Units: 5. Aut (A. M. Gob, N. Karamullaoğlu, Ç. N. Saraç, G. Varinlioglu) Spr (Staff)

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. Spr (A. M. Gob, N. Karamullaoğlu, D. Kaya-Mutlu, Ç. N. Saraç, G. Varinlioglu)

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: . Aut (E. Saglam)

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 (E. Saglam)

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 (E. Saglam)

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 204. Aut (M. Brzozowski, A. Ozsalar)

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 (M. Brzozowski, A. Ozsalar)

FA 205  Figure Drawing I
Initial studies on the basic principles of drawing; the perception of the proportions of the human body. Studies of the model with various materials. (non-FA majors only) Credit units: 3 ECTS Credit Units: 6.

FA 206  Figure Drawing II
Developing drawing skills and knowledge through studying the human body. Examining action, contour, modeling (shaping) and composition. Credit units: 3 ECTS Credit Units: 6, Prerequisite: FA 205 or approval of the FA Department.
FA 211 Introduction to Painting I
Building basic technical skills. Experiments with the use of paint. Conceptual and practical experiments on color mixture. Examining the creative processes through these experiments. (non-FA majors only). Credit units: 3 ECTS Credit Units: 6. Aut (I. Veryeri)

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 (H. Misman, I. Veryeri) Spr (H. Misman, I. Veryeri)

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 (F. Erder, A. Özsalar) Spr (F. Erder, A. Özsalar)

FA 218 Introduction to Ceramics II
Creation of form using red, white and colored clay on the potters’ wheel. Decoration techniques using glaze in accordance with design principles is emphasized. Molding by plaster and/or polyester as a process of duplicating already created work is introduced. Credit units: 3 ECTS Credit Units: 6, Prerequisite: FA 217 or approval of the FA Department.

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 (I. Veryeri)

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: . 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.

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.

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.

FA 305 Advanced Drawing I
Figurative studies to develop skills and knowledge of drawing beyond the scope of the course series FA 205 and FA 206. Different ways of expression and interpretation of the figure drawing with emphasis on drawing techniques and materials. Credit units: 3 ECTS Credit Units: 6.
FA 306  
Advanced Drawing II  
Examination of the human body in form, color and value by line and paint. Developing individual expression, artistic thought and imagination based on live model studies.  
Credit units: 3  ECTS  Credit Units: 6, Prerequisite:  
FA 305 or approval of the FA Department.

FA 307  
Composition in Drawing I  
An advanced drawing course to help students transform the initial academic experience into the artistic expression.  
Credit units: 3  ECTS  Credit Units: 6.

FA 308  
Composition in Drawing II  
An advanced course, developing the abilities of using drawing as a tool of visual thinking and a language of the visual communication, based on previous academic experiences.  
Credit units: 3  ECTS  Credit Units: 6.

FA 331  
Technology of Art  
Introduction to technical materials used in various visual arts and technical, physical and chemical characteristics of the natural and synthetic materials used in sculpture, painting, printmaking and ceramics.  
Credit units: 3  ECTS  Credit Units: 4.

FA 332  
Art and Technology  
Art has been deeply interconnected with changes in technology, it has either responded to it or has changed with it leading to redefinitions in the making of art as well as changes in how it is viewed. This course examines symptomatic positions of interaction in the history, and discusses the contemporary situation with emphasis on recent changes.  
Credit units: 3  ECTS  Credit Units: 6.

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 (Z. Aracagök)

FA 362  
Philosophy of Art II  
In this course, we will examine a number of the 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.  
Spr (Z. Aracagök)

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.

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.  
Credit units: 3  ECTS  Credit Units: 4.

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: .

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.

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.

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 (Z. Aracagök)
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 privileging 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 1970s on? How have the computers and multimedia changed our conception of art? Credit units: 3 ECTS Credit Units: 4, Prerequisite: FA 421. Spr (Z. Aracagök)

FA 461 Philosophy of Art
Specific works of art, visual images and objects are examined through diverse philosophical view points. There are discussions on the production of meaning with resource to philosophical approaches. Does art have a philosophy, and if so, what kind of philosophy is it? Where and what are the crossovers between philosophy and art? Specific cases where there have been intimate relations between philosophers and artists are studied. Credit units: 3 ECTS Credit Units: 4.

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.

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. Aut (Ç. N. Sarac)  

FA 468 Curatorial Studies II
A continuation of FA 467. The course will be based on the works of well-known curators throughout the world. Students are encouraged to experiment the exhibition techniques within a contextual approach. Credit units: 3 ECTS Credit Units: 6, Prerequisite: FA 467, Spr (Ç. N. Sarac)  

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.

GRADUATE COURSES

PNT 501 Painting I
Artistic and conceptual surveys at the specialization level. Credit units: 4 ECTS Credit Units: 8. Aut (I. Veryeri)

PNT 502 Painting II
Artistic and conceptual surveys at the specialization level; searching for new ways of expression. Credit units: 4 ECTS Credit Units: 8. Spr (A. Dikia)

PNT 503 Drawing I
An advanced course in free-hand drawing which aims at producing an original final product from various initial studies in free-hand drawing techniques. Credit units: 4 ECTS Credit Units: 8.

PNT 504 Drawing II
An experimental course in advanced drawing where the students are introduced to abstraction, image construction and rendering through various drawing techniques. Credit units: 4 ECTS Credit Units: 8, Prerequisite: PNT 503.

PNT 511 Philosophy of Art
The leading views in the fine arts are discussed and analyzed from an artistic point of view. The social environment and world views in which painting, sculpture and architecture arose and developed are investigated as well as the logic of artistic formation which appeared parallel to the social and artistic views. Credit units: 3 ECTS Credit Units: 6.

PNT 512 Psychology of Art
Psychological nature of the artistic environment and artist. Relationship of the psychology of creation and art work. Views of some researchers in that field. Credit units: 3 ECTS Credit Units: 6.

PNT 515 Issues and Problems in Contemporary Art I
Contemporary issues and problems as art and artists are selected to be analyzed and discussed. Students are expected to participate in class discussions, conduct in-depth research and write on topics covered. Credit units: 3 ECTS Credit Units: 6.
PNT 516  Issues and Problems in Contemporary Art II
Continuation of PNT 515. Advanced issues and problems in contemporary art. Works by various artists are selected and analyzed in terms of approaches and trends. Students are encouraged to participate in class discussions and expected to do in-depth research as well as to write term papers on contemporary art issues.
Credit units: 3 ECTS Credit Units: 6.

PNT 590  Research Topics
Credit units: None ECTS Credit Units: .

PNT 599  Master’s Thesis
Credit units: None ECTS Credit Units: .

ADA 511  Research Methods in Design I
This course aims to develop a critical perspective on theory and practice in art with the intention of clarifying problematical positions maintained due to appropriation of a conception of art which presents itself with a clear-cut distinction of theory and practice. In this sense, this is a project-based course with a stress on “project”s intermediary position between theory and practice. Credit units: 3 ECTS Credit Units: .

ADA 512  Research Methods in Design II
This is the second part of a two term course in which students are encouraged to develop a critical perspective on theory and practice in art. In relationship with the first part of the course, the second term lays a special stress on such conditioning that pertain to the hypostatizations of the separatedness of theory and practice. With the intention of finding a way out of this situation, the readings for the course will focus on Spinoza, Leibniz, and Derrida. Since, going through stages of a work-shop, the course aims to end up in finalizing student projects in an exhibition, the first part of the course will be counted as prerequisite for the second part. Credit units: 3 ECTS Credit Units: .

ADA 690  Advanced Research Topics
Credit units: None ECTS Credit Units: . Aut (Staff) Spr (Staff)

ADA 699  Ph.D. Dissertation
Credit units: None ECTS Credit Units: . Aut (Staff) Spr (Staff)
DEPARTMENT OF GRAPHIC DESIGN


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 language 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

The Department of Graphic Design's undergraduate program consists of a two-phase curriculum. The first two years constitute the initial phase. A broad based curriculum during the first year exposes the 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 more intensive studio classes in Visual Communications, Illustration, Photography, Computer Graphics and Video Technology and Production.

The last two years comprise the final phase of the Graphic Department curriculum, where the student may choose to concentrate on Visual Communication Graphic Design, Illustration or Media Technology and Production. 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.

UNDERGRADUATE CURRICULUM

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<td>Basic Design I 6 / 10</td>
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<tr>
<td>FA 103</td>
<td>Drawing I 3 / 4</td>
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<td>FA 131</td>
<td>Technical Drawing and Lettering I 3 / 4</td>
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<td>FA 171</td>
<td>Introduction to Art and Culture I 3 / 5</td>
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<tr>
<td>ENG 101</td>
<td>English and Composition I 3 / 6</td>
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<td>FA 132</td>
<td>Technical Drawing and Lettering II 3 / 4</td>
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<tr>
<td>FA 172</td>
<td>Introduction to Art and Culture II 3 / 5</td>
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SECOND YEAR

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<td>Graphic Design I 6 / 8</td>
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<td>GRA 211</td>
<td>Typography I 3 / 6</td>
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<tr>
<td>GRA 225</td>
<td>Introduction to Visual Techniques I 3 / 6</td>
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<td>GRA 212</td>
<td>Typography II</td>
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<td>FA 272</td>
<td>History of Art II</td>
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#### Autumn Semester

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<td>GRA 290</td>
<td>Summer Practice I</td>
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<td>GRA 301</td>
<td>Graphic Design III</td>
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<td>GRA 341</td>
<td>History of Graphic Art</td>
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<td>FA 361</td>
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<td>GRA 344</td>
<td>Psychology of Advertisement</td>
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<td>FA 362</td>
<td>Philosophy of Art II</td>
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### Fourth Year

#### Autumn Semester

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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>
<td>6 / 8</td>
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<td>FA 421</td>
<td>Analysis of Art Work I</td>
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#### Spring Semester

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<td>GRA 402</td>
<td>Graphic Design VI</td>
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<tr>
<td>GRA 444</td>
<td>Marketing</td>
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<td>FA 422</td>
<td>Analysis of Art Work II</td>
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### Electives

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<th>Course Title</th>
<th>Credits / ECTS Credits</th>
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<td>Rendering for Graphic Design I</td>
<td>3 / 6</td>
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<tr>
<td>GRA 206</td>
<td>Rendering for Graphic Design II</td>
<td>3 / 6</td>
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<tr>
<td>GRA 207</td>
<td>Conceptual Design</td>
<td>3 / 6</td>
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<tr>
<td>GRA 208</td>
<td>Graphic Design Concepts</td>
<td>3 / 6</td>
</tr>
<tr>
<td>GRA 210</td>
<td>Multimedia and Web Design</td>
<td>3 / 6</td>
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<td>GRA 213</td>
<td>Computers in Graphic Design I</td>
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<td>GRA 214</td>
<td>Computers in Graphic Design II</td>
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<td>GRA 215</td>
<td>Animation and Film/Television Graphics I</td>
<td>3 / 6</td>
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<td>GRA 223</td>
<td>Photographic Image Processing I</td>
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<td>GRA 224</td>
<td>Photographic Image Processing II</td>
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<td>GRA 313</td>
<td>Typographic Design and Theories</td>
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<td>GRA 324</td>
<td>Photographic Practice</td>
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<td>GRA 333</td>
<td>Packaging I</td>
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<td>GRA 334</td>
<td>Packaging II</td>
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<td>GRA 351</td>
<td>Introduction to Video Production Techniques I</td>
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<td>GRA 352</td>
<td>Introduction to Video Production Techniques II</td>
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<td>GRA 353</td>
<td>Design: Image and Text I</td>
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<td>GRA 354</td>
<td>Design: Image and Text II</td>
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<td>GRA 421</td>
<td>Illustration I</td>
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<tr>
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<td>Illustration II</td>
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GRADUATE PROGRAM

The aim of the graduate program in the Department of Graphic Design is to provide students with a theoretical background in design and practical applications. Students with artistic or technical backgrounds may sharpen and enhance their artistic skills. Students select an area in which to specialize such as graphic design, illustration, computer art or animation. Specialization in other areas is also possible with the approval of tutors. A diverse faculty of professionals, including visiting lecturers from Turkey and abroad, help students broaden their outlook in a larger cultural, scientific, and socio-political context.

Master of Fine Arts in Graphic Design

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 that includes a portfolio presentation and an interview. The date and place of the examination are announced each year by the University. During the interview applicants should present a body of well-defined original work as well as slides, videotapes or photographs of previous work. All applicants must have a proof of their English proficiency.

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 maximum duration of the program is five semesters.

COURSES OFFERED

FIRST YEAR

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits / ECTS Credits</th>
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<tbody>
<tr>
<td>GRA 501</td>
<td>Graphic Design</td>
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<td>GRA 515</td>
<td>Computer Graphics and Art I</td>
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<td>GRA 517</td>
<td>Image Time and Motion I</td>
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<td>GRA 519</td>
<td>Critical Approaches to Advertising Consumer Culture</td>
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<td>GRA 541</td>
<td>Graphic and Visual Representation</td>
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<td>GRA 555</td>
<td>On Critical Reasoning and Artwork</td>
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<td>GRA 561</td>
<td>Philosophy of Modern Art</td>
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<td>GRA 565</td>
<td>Photography as a Contemporary Medium I</td>
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<tr>
<td>IAED 511</td>
<td>Research Methods I</td>
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Spring Semester

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<td>Computer Graphics and Art II</td>
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<td>GRA 518</td>
<td>Image Time and Motion II</td>
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<td>GRA 520</td>
<td>Critical Approaches to Popular Culture</td>
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<td>GRA 542</td>
<td>Mass Media and Visual Technologies</td>
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<td>GRA 556</td>
<td>What is Contemporary?</td>
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<td>GRA 562</td>
<td>Current Perspectives within Post-Modernity</td>
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<td>GRA 566</td>
<td>Photography as a Contemporary Medium II</td>
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<tr>
<td>GRA 568</td>
<td>Semiotics and the Work of Art II</td>
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SECOND YEAR

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<tr>
<td>GRA 599</td>
<td>Master's Thesis</td>
<td>- / -</td>
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COURSE DESCRIPTIONS

UNDERGRADUATE COURSES

GRA 201 Graphic Design I

Work on advanced theoretical and technical knowledge in the area of graphic design. Design systems, determining design issues and criteria, their visual forms, functions and solutions to these problems. Design media and materials. Credit units: 6 ECTS, Credit Units: 8, Prerequisite: FA 102. Aut (M. Brzozowski, A. Segalini)
GRA 202 Graphic Design II
The technical and artistic problems of graphic design, methods of realization, two and three dimensional layout techniques, posters, brochures, book covers, etc; work with portfolio subjects. The visual concepts and functional problems during synthesis of graphical design elements. Credit units: 6 ECTS Credit Units: 8, Prerequisite: GRA 201. Spr (M. Brzozowski, A. Segalini)

GRA 205 Rendering for Graphic Design I
This studio course involves black and white visual presentation techniques of 2-D visual materials by means of pencil and marker. The course aims to give information to the students about rapid visualization. Credit units: 3 ECTS Credit Units: 6. Aut (B. Zalewska-Sladczyk)

GRA 206 Rendering for Graphic Design II
This course consists of black and white and color presentation techniques of 3-D real objects by means of marker, water color and mixed media. The continuation of GRA 205 with emphasis on more advanced visualization. Credit units: 3 ECTS Credit Units: 6. Spr (B. Zalewska-Sladczyk)

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 210 Multimedia and Web Design
A study of graphic design principles as they apply to the development of multimedia projects. The course integrates graphics, color, images, icons, text, animation, sound, multimedia authoring and web design software to teach the student relevant technology as it applies to multimedia design. Students apply graphic design principles in developing a variety of multimedia instructional products working individually and in teams. Credit units: 3 ECTS Credit Units: 6. Aut (O. İktu) Spr (O. İktu)

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: FA 132. Aut (F. Ince, A. Segalini)

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. İnce, A. Segalini)

GRA 213 Computers in Graphic Design I
An introduction to the graphic capabilities of a sophisticated full color computer graphics system. Using advanced "user-friendly" software designed primarily for artists and graphic designers, students will learn to create art on the computer. Subjects covered will include computer graphics terminology, saving and recalling images on disk, digitizing a photographic image, and producing "hard copy" (35 mm. slides) with a film recorder. Credit units: 3 ECTS Credit Units: 6. Aut (M. Sladczyk)

GRA 214 Computers in Graphic Design II
A continuation of GRA 213 with emphasis on more advanced computer techniques. Development of two dimensional graphics. Animation and three dimensional graphics. Credit units: 3 ECTS Credit Units: 6, Prerequisite: GRA 213. Spr (M. Sladczyk)

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 (N. Sevimli)

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 (N. Sevimli)

GRA 223 Photographic Image Processing I
A course on the processing techniques of digitized still images, including digital darkroom methods, color manipulation, collage and the like by using related computer software. Credit units: 3 ECTS Credit Units: 6. Aut (B. Bingöl, O. İktu, N. Ö. Sevimli)
GRA 224 Photographic Image Processing II
A continuation of GRA 223. The students are expected to develop the projects of their interest by using a variety of possible sources for still images like printed media and video. Credit units: 3 ECTS Credit Units: 6. Spr (B. Bingöl, O. İktu, N. Ö. Sevimli)

GRA 225 Introduction to Visual Techniques I
An introductory course on photography and electronic imaging techniques. Students are expected to acquire basic technical knowledge of black and white photography including film developing, enlarging and paper processing in synchronization with the fundamental video production basics. Also within the same course, students are introduced to computers and graphic design software. Credit units: 3 ECTS Credit Units: 6. Aut (M. Gürzumar) Spr (M. Gürzumar)

GRA 226 Introduction to Visual Techniques II
Advanced photography techniques such as color photography, including color negative/slide film processing and color printing. Also provided are training in computer paint software and two dimensional animation software supported by video presentation skills. Credit units: 3 ECTS Credit Units: 6, Prerequisite: GRA 225. Aut (P. Ercan) Spr (P. Ercan)

GRA 290 Summer Practice I
This summer training is intended to give the student a hands-on experience in an offset printing facility. The minimum time for this practice is 4 weeks. Credit units: None ECTS Credit Units: . Aut (C. Gürer) Spr (C. Gürer)

GRA 301 Graphic Design III
Color, stylization of form and spots, demonstration and composition in graphics. Finding slogans for graphic work and expressing them in graphic terms. Preparing projects for different subjects in graphics. Credit units: 6 ECTS Credit Units: 8, Prerequisite: GRA 202. Aut (P. Güven, F. İnce)

GRA 302 Graphic Design IV
Preparing a portfolio for communication media using one or all of the techniques of illustration, photography, typography. Studies on realization of graphic projects. Credit units: 6 ECTS Credit Units: 8, Prerequisite: GRA 301. Spr (P. Güven, F. İnce)

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. Spr (Staff)

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 (I. Aksoy) Spr (I. Aksoy)

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. Spr (C. Gürer)

GRA 341 History of Graphic Art
The evolution of graphic communications from prehistoric times until the invention of movable typography. The origins of printing and typography in Europe. The impact of industrial technology upon visual communications. The growth and development of modern graphic design. History of Turkish graphic art. Credit units: 3 ECTS Credit Units: 4. Aut (A. M. Gob)

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 (I. P. Güven)

GRA 351 Introduction to Video Production Techniques I
Attending the course, students are expected to acquire basic video production skills such as pre-production planning, lighting for video, shooting with a video camera and sound recording. Credit units: 3 ECTS Credit Units: 6. Aut (G. Appleton, O. İktu, K. Olguntürk)
GRA 352  Introduction to Video Production Techniques II  
Students attending the course will gain insight about video post-production concepts such as sound mixing and editing.  Credit units: 3 ECTS Credit Units: 6.  Spr (G. Appleton, O. ˙Iktu, K. Olguntürk)

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 355  Design: Image and Text III  
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 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: 6.  Aut (C. Gürer) Spr (C. Gürer)

GRA 401  Graphic Design V  
Subjects such as tourism, health training, education, environmental health. Preparation of design projects using mass media for banks, clothing firms, industrial products, press organizations, and publishing organizations.  Credit units: 6 ECTS Credit Units: 8, Prerequisite: GRA 302.  Aut (P. Ercan, C. Gürer)

GRA 402  Graphic Design VI  
Using different types of media to prepare, realize and print design projects. Acquisition of knowledge about advanced contemporary graphic products.  Credit units: 8 ECTS Credit Units: 14, Prerequisite: GRA 401.  Spr (P. Ercan, C. Gürer)

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 (P. Güven)

GRA 422  Illustration II  

GRA 424  Principles of Visual Communication Design  
This course intends to provide non-graphic majors and potential graduate students with a conceptual framework of visual communication in general and graphic design in particular. Design, graphic design technology, channels of expression, the nature of technical images, video and computer applications, basic concepts of communications, media, reception, modernity and postmodernity as cultural situations will be covered as some of the basic topics.  Credit units: 3 ECTS Credit Units: 6.

GRA 444  Marketing  
The role of graphic arts in marketing. The role of graphics in the packaging industry. Depicting advertisements in the most economic ways using communications media.  Credit units: 3 ECTS Credit Units: 6.

GRADUATE COURSES

GRA 501  Graphic Design  
The course covers conceptual thinking and solutions on graphic problems for organizing and communicating messages to establish the nature of a product or idea, to set the appropriate stage on which to present its virtues, and to announce and publicize such information in the most effective way applying concepts that are expressed in words and/or pictures and solving problems of visual communication. In this course graduate level students are expected to create their individual problems and work towards a solution under the guidance of the instructors.  Credit units: 3 ECTS Credit Units: 6.

GRA 515  Computer Graphics and Art I  
Introduction to the principles of computer graphics. Digital painting, drafting and lettering, two- and three-dimensional representations, transformations and deformations. The course requires no prior knowledge of computers and after a detailed introduction to personal computers, extensive laboratory work is done by using painting and drafting software packages.  Credit units: 3 ECTS Credit Units: 6.

GRA 516  Computer Graphics and Art II  
Introduction to more advanced drafting and painting applications. Computer assisted typography, three dimensional logo and letters and logos in motion for advertisement graphics will be emphasized.  Credit units: 3 ECTS Credit Units: 6.
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: 6. Aut (A. Treske)

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 discursive creativity 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: 6. Spr (A. Treske)

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 (newspaper, magazines television, the Web, etc.) Credit units: 3 ECTS Credit Units: 6. Spr (A. Treske)

GRA 520 Critical Approaches to Popular Culture
The aim of this course is to introduce students to a range of theoretical and methodological approaches to the study of popular culture. Particular emphasis is placed on current critical-cultural approaches arising out of cultural studies, postmodern theory, and feminism; attention is also given, however, to traditional communication theories, as well as to semiotic and sociological approaches. Credit units: 3 ECTS Credit Units: 6. Spr (O. Gelley)

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: 6. Aut (M. Mutman)

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: 6. Spr (M. Mutman)

GRA 555 On Critical Reasoning and Artwork
The aim of this course is to give the basic concepts to analyze how critical reasoning and transformation of the world and the object has been articulated with the artistic creativity. The course also aims to shed a light on the ontological problematic of the artistic work within this context. Credit units: 3 ECTS Credit Units: 6.

GRA 556 What is Contemporary?
In today’s world “contemporary” plays a leading role not only as an art(istic) concept, but as a wholistic one, that determines even the art(istic) production. After the impact of modernism at the beginning of the century, visual arts and many related fields continue on finding answers to the question, what is contemporary? The aim of the course is to give the students a basic and paradigmatic approach to the debate. At the end it is expected that the students will acquire the essential sensibility in defining and differentiating the contemporary art(istic) production. Credit units: 3 ECTS Credit Units: 6.

GRA 561 Philosophy of Modern Art
In-depth descriptions of contemporary art, and the concepts underlying it in the international community. Analyses and evaluations of recent developments and new movements in fine arts during the 20th century. Discussion of the relationships between contemporary art and philosophy. Credit units: 3 ECTS Credit Units: 6.
GRA 562  Current Perspectives within Post-Modernity
Specific works of art, images and objects are examined through diverse philosophical perspectives within post-modernity. In-dept investigations within post-modern condition in consideration of emerging visions and conception. Credit units: 3 ECTS Credit Units: 6.

GRA 565  Photography as a Contemporary Medium I
A theoretical course on photography in general, with the emphasis on the history of the medium as a means of artistic expression and its counterpart in the commercial area, as well as the recent theories on interpretation of photography. Credit units: 3 ECTS Credit Units: 6.

GRA 567  Semiotics and the Work of Art I
An examination of related terms and concepts such as sign, signification. Art as a signifying practice. First semiotics: linguistics and the emphasis on text. Second semiotics: the introduction of psychoanalysis and the role of the receiver. Current trends in semiotics and diverse approaches to art within a cultural context. Credit units: 3 ECTS Credit Units: 6.

GRA 568  Semiotics and the Work of Art II
A continuation of Semiotics and the Work of Art I. This course offers a critical look into the classical notions of semiotics and the discussions it raised. It also places more emphasis on the relationship between theory and analysis. There is a focus on the nature of the critical discourse and examples of critical work are examined. Students are expected to produce written work on the analysis of works of art. Credit units: 3 ECTS Credit Units: 6.

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

GRA 599  Master’s Thesis
Credit units: None ECTS Credit Units: . Aut (Staff) Spr (Staff)
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. Computers and CADD (Computer Aided Design and Drafting) are also integrated into different levels of education.

UNDERGRADUATE CURRICULUM

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GRADUATE PROGRAM

Master of Fine Arts in Interior Architecture and Environmental Design

The program is structured to provide specialization in various areas that require expertise in the Interior Architecture and Environmental Design discipline in addition to scholarly inquiry and research opportunities. Students are guided through an intensive, concentrated program that is based primarily on established educational objectives which the students have selected for themselves. The courses are chosen according to the areas of interest related to the issues of interior and architectural design. Graduate students are expected to be highly motivated, technically competent and mentally prepared to deal with ideas at a professional level.

Admission: Applicants are required to have a Bachelor’s degree in a relevant field of design. Admittance to the program is through a competitive entrance examination as well as the evaluation of the portfolios which should represent work that has been done within the undergraduate years and should contain those pieces of work that 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. (Also refer to the “Graduate Admissions” section in the introduction of this catalog for the general graduate admission requirements.)

Degree Requirements: After the completion of at least 24 units of course work in two successive terms, the candidate must give two seminars in her/his area of interest and prepare and submit a thesis. Duration of the program is 4 semesters.

COURSES OFFERED

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</tr>
<tr>
<td>IAED 578</td>
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SECOND YEAR

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<tr>
<td>IAED 590</td>
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<tr>
<td>IAED 599</td>
<td>Master's Thesis</td>
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COURSE DESCRIPTIONS
UNDERGRADUATE COURSES

IAED 201  Interior Design Studio I
Three dimensional problem solving techniques are used to relate the elements and principles which shape interior space to the functional and aesthetic factors which affect individual space requirements. Credit units: 6 ECTS Credit Units: 10. Prerequisite: FA 102. Aut (B. Güner, Ç. İmamoğlu, O. Özakın, M. Öztürk, E. E. Türkkan, S. E. Ural) Spr (Staff)

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: IAED 201. Spr (B. Güner, Ç. İmamoğlu, O. Özakın, M. Öztürk, E. E. Türkkan, S. E. Ural)

IAED 212  Computers and Geometry
Introduction of basic hardware and software concepts and the command language relevant to the operating system. A fully covered text processor. Basic geometric concepts related to two and three dimensional design are introduced through various software systems. Credit units: 3 ECTS Credit Units: 4. Aut (U. Şumnu, Ş. Taşlı Pektas) Spr (U. Şumnu, Ş. Taşlı Pektas)

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 (D. Hasırcı) Spr (D. Hasırcı)

IAED 231  Advanced Design Graphics
Study of presentation techniques employing various media. Students are expected to employ appropriate light, shade, textural and color effects to communicate interior design concepts. Credit units: 3 ECTS Credit Units: 4. Aut (İ. Basa, M. Gür, S. E. Ural)

IAED 244  Building Performance: Physical Factors
Lighting, color and thermal comfort in the interiors of buildings. Credit units: 3 ECTS Credit Units: 4. Spr (C. Yener)

IAED 251  Construction and Materials I
The basic elements of building (such as furniture, cabinetry, etc.) construction. Credit units: 4 ECTS Credit Units: 6. Prerequisite: FA 132. Aut (Ş. Aybar, T. Kayasü, Ş. Taşlı Pektas)

IAED 252  Construction and Materials II
Properties of basic groups of building materials are reviewed, investigated and evaluated together with an overall knowledge of their typical traditional and current applications and the criteria for their selection. Credit units: 4 ECTS Credit Units: 6. Prerequisite: IAED 251. Spr (Ş. Aybar, T. Kayasü, Ş. Taşlı Pektas)

IAED 263  History of Built Environment I
Concepts of “history” and “continuity” as surveyed through selected examples from the built environment, from prehistory to the end of the Byzantine era, with particular emphasis on the interior space. Neolithic, Mesopotamian, Egyptian, Greco-Roman, Romanesque, Gothic and Byzantine periods in the West, and classical Islam, Omniaid, Abbasid and Seljuk civilizations in the East are particular areas of study. Credit units: 3 ECTS Credit Units: 5. Aut (H. Bassler, S. Özaloğlu)

IAED 264  History of Built Environment II
A comparative analysis of monuments in Eastern and Western civilizations from the 15th century to the present, with particular emphasis on interior space. The Renaissance, Baroque and Neoclassicism versus the Ottomans. The Safavids and the Moguls till the 19th century, 19th and 20th century developments such as the industrial revolution and the effects on the built environment, Internationalism, Regionalism, Modernism and Post Modernism. Credit units: 3 ECTS Credit Units: 5. Spr (H. Bassler, S. Özaloğlu)

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: . Aut (H. Demirkan)

IAED 301  Interior Design Studio III
Special consideration is given to office planning. Space planning, tenant development, interior design and documentation for a humane working environment. Corporate structure, management theory, humanistic ideals, and building systems and components in relation to office design. Credit units: 6 ECTS Credit Units: 10. Prerequisite: IAED 202. Aut (Ş. Aybar, İ. Baha, H. Bassler, O. Demirbaş, T. Kayasü, A. Köçük) Spr (Staff)

IAED 302  Interior Design Studio IV
Design of large office complexes, public use interiors, service and care facilities. Individual activity, group interaction, cultural relationships, handicapped requirements, health, safety, comfort and technological factors
for space design. CADD is introduced to support extensive design and drafting activity. Credit units: 6 ECTS 
Credit Units: 10, Prerequisite: IAED 301. Spr (Ş. Aybar, H. Bassler, O. Demirbaş, T. Kayasü, A. Küçük)

IAED 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. Prerequisite: IAED 212. Credit units: 3 ECTS Credit Units: 5, 
Prerequisite: IAED 212. Aut (T. Sonkan Türkkan) Spr (T. Sonkan Türkkan)

IAED 315 Computerized Presentation Techniques
Advanced usage of computerized programs for representation of the student projects by integrating classical and 
computer media. Credit units: 3 ECTS Credit Units: 6, Prerequisite: IAED 311. Aut (T. Sonkan Türkkan) Spr (T. 
Sonkan Türkkan)

IAED 316 Computer Applications
Introduction to an efficient use of information and data management. Creating simple screen macros. Working 
with various application programs. Credit units: 3 ECTS Credit Units: 6, Prerequisite: IAED 311. Aut (B. 
Şenyapılı Özcan) Spr (B. Şenyapılı Özcan)

IAED 322 People and Environment
Human behavior and its relation to the design of environments. Concepts such as private and public space, 
territoriality, perception and cognition of spaces, and spatial experience are explored. Credit units: 3 ECTS 
Credit Units: 5. Aut (Ç. İmamoğlu, N. Kural) Spr (Ç. İmamoğlu, N. Kural)

IAED 341 Building Performance: Codes
Acoustics, noise control and fire prevention in buildings. Credit units: 3 ECTS Credit Units: 5. Aut (C. Yener)

IAED 342 Building Performance: Services
Creation of a basic understanding of issues related to mechanical and electrical equipment and services in 
building; the requirements related to the installation, operation and maintenance of such equipment. Technical 
drawing of such systems. Credit units: 3 ECTS Credit Units: 5. Spr (L. Tosun)

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 (O. Demirbaş, T. Yardımcı)

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 architec-
ture/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: . Aut (H. Demirkan)

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 
sell conduct and research capabilities in theoretical issues to justify proposed design solutions. Credit units: 3 
ECTS Credit Units: 6.

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 (B. Aydinalp) Spr (B. Aydinalp)
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 (I. Özman) Spr (I. Özman)

IAED 397 Color Theory and Applications
Titles 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. E. Ural)

IAED 401 Interior Design Studio V
Exploration of design concepts for commercial enterprises. Adaptive re-use of existing spaces, prototype solutions, interior arrangement systems, exhibition and graphic modes. Credit units: 6 ECTS Credit Units: 10, Prerequisite: IAED 302. Aut (S. Altay, N. Çarkacı, Z. Genç, B. Şenyapılı Özcan, T. Yardımcı, S. Yılmazer)

IAED 402 Interior Design Studio VI
Public space: programming, schematic design, and design development for a public, historic, or special interior environment in the community. Credit units: 9 ECTS Credit Units: 14, Prerequisite: IAED 401. Spr (S. Altay, N. Çarkacı, Z. Genç, B. Şenyapılı Özcan, T. Yardımcı, S. Yılmazer)

IAED 415 Modular Interior Systems
Systems research for the interior environment: furniture technology and materials. Emphasis on the design of general and multi purpose interior systems generated for mass production. Credit units: 3 ECTS Credit Units: 4, Prerequisite: IAED 351. Aut (S. Altay)

IAED 417 Interior Design Documentation
Students will be required to complete a project at the production drawing level. Design documentation skills are offered. Credit units: 3 ECTS Credit Units: 4. Aut (N. Çarkacı, L. Tümer)

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 (N. Çarkacı, L. Tümer)

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, Prerequisite: IAED 322. Aut (F. Erkip)

IAED 426 Leisure Practices and Spaces
This course is planned to provide a comprehensive understanding of leisure issues, which constitute one of the major practices in contemporary societies. With the global cultural influences, leisure patterns and spaces have been transforming rapidly and significantly in every society. Leisure turns out to be a part of the daily life and leisure spaces are merged into spaces used for other daily practices like shopping, recreation, relaxation. In this course, the transformation in the definition and practices of leisure will be discussed to develop a basis for the critical analysis of new leisure spaces. Students are expected to participate in the discussions through extensive reading and observation on relevant sites. Credit units: 3 ECTS Credit Units: 6. Spr (F. Erkip)

IAED 461 Environmental Management
As introduction to the issues in environmental administration and economics. Economic and organizational dimensions of environmental decisions. Evaluation of economic approaches. Relations between environmental organizations and various interest groups. The role of the design professional in environmental decision-making process. Basic concepts of building economics. Credit units: 3 ECTS Credit Units: 6. Aut (D. S. Polatkan) Spr (D. S. Polatkan)

IAED 462 Contemporary Architecture
An introduction to the roots of Modern Architecture, its formation through Bauhaus and evolution into International Style, Late Modernism and Post Modernism. Understanding movements of post 1980’s such as New Expression, High Tech, Deconstruction and others. Credit units: 3 ECTS Credit Units: 6. Spr (Basar)
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: 6. Aut (E. E. Türkkan)

IAED 471  Interior Analysis Systems
The course will cover the analysis of interior systems and the assessment of interior elements to reveal the basic facets of interior design and its relation to environment in general. Interpretation of qualitative and quantitative spatial analysis; perceptions and deceptions for space qualities through design systems scope the course. Credit units: 3 ECTS Credit Units: 6. Spr (T. Yardımcı)

IAED 485  Design Methodology
Increasing degree of complexity of problem situations in contemporary living requires more objective scientific tools, methods or techniques which this course aims to develop an understanding of; while demonstrating the conceptual framework, a retrospective analysis of the contributions to the field, and technical base needed to relate theoretical issues to relevant contexts via methodology. Credit units: 3 ECTS Credit Units: 6.

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. Camgöz Olguntürk) Spr (N. Camgöz 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 (M. Öztürk)

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. Spr (M. Öztürk)

GRADUATE COURSES

IAED 501  Graduate Studio I
An analytical approach to critical issues in interior design. The studio is planned to provide the necessary knowledge and skills to deal with specific interior design problems, particularly related to the understanding of space, materials and detailing, through lectures, site trips and studio work. Credit units: 3 ECTS Credit Units: 6. Aut (H. Demirkan, F. Erkip)

IAED 502  Graduate Studio II
The students are expected to conduct their own research in the studio under the supervision of the instructors where they are to analyze, test, and criticize particular case studies. These studies may be structured around different theoretical concepts or typologies. Credit units: 3 ECTS Credit Units: 6. Prerequisite: IAED 501. Spr (H. Demirkan, F. Erkip)

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: 6. 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: 6.

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: 6. Prerequisite: IAED 511. Spr (H. Demirkan)

IAED 524  Construction of Design as a Social Practice
The interpretation of nature, urban life and city form in various theories will be explored. Each interpretation will be discussed as a different “way of looking” at the environment. The emphasis will be on design activity, design culture, and social practice of design. “Knowledge” will be explored as a major theme in the professionalization of design. Credit units: 3 ECTS Credit Units: 6.

IAED 531  Axiology and Ethics of Building
Introduction to Axiology: Value, value judgements, value systems, valuation and worth. Introduction to Ethics: Oughtness, actual and conditional oughtness, first and second order ethical statements. Building axiology:

**IAED 542 Environmental Factors**
Topics such as heat, bioclimatic comfort, heating, cooling and ventilating, energy efficiency of buildings, and condensation are covered. Physics of sound, acoustics and noise control are also discussed. Credit units: 3 ECTS Credit Units: 6.

**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: 6. Aut (F. Erkip)

**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: 6. Spr (F. Erkip)

**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: 6.

**IAED 571 Lighting and Color**
Importance of light and color as design factors, physics of light, light and vision, light sources and lighting methods, symbolic and functional color, color in interiors. Credit units: 3 ECTS Credit Units: 6.

**IAED 572 Building Safety**
Fire and fire-safe design parameters, accidents in buildings and accident prevention measures and design for handicapped are the main topics of this course. After theoretical study, buildings will be evaluated as case studies. Credit units: 3 ECTS Credit Units: 6.

**IAED 573 Computer Programming**
Introduction to computers, computer applications and programming. Starting with the Disk Operating System, some word processing applications will be used to describe programming logic and high level language constructs. Credit units: 3 ECTS Credit Units: 6.

**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: 6.

**IAED 578 Computer Modeling in Design**
The use of computers as media in developing and communicating design ideas is discussed. Models of computation, how software can be understood in terms of computational models and how models relate to the process and products of design will be studied. Credit units: 3 ECTS Credit Units: 6.

**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. 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: 6.

**IAED 585 Design Requirements**
This course is intended to introduce students to the requirement concept in product/space model environment. Requirement specification and modeling are critical design strategies used during the early phases of design delivery of design solutions. The course will cover the following topics: problem analysis; user needs; system definition; refining the system definition, and; building the right system. A project as a teamwork will be conducted for the specification and modeling of the requirements in building product model environment. Credit units: 3 ECTS Credit Units: 6. Aut (H. Demirkan)

**IAED 587 Spatial Practices**
Today, spatial practices (i.e., the relationship between bodies, spaces and the socio-cultural context) constitute the focus of a broad range of disciplines not necessarily confined to architecture, interior architecture and planning. Subjectivity and space are studied as part of a web of complex entanglements including issues of representation, identity and power mechanism. The aim of this course is twofold: On one hand it provides familiarity with recent theoretical developments regarding subject/space relationships. On the other hand, it provides the tools for interpretive explanations of concrete practices with particular focus on the materiality of space. Students are
expected to do regular reading and to participate and share their individual research findings in class discussions.

Credit units: 3
ECTS Credit Units: 6.

**IAED 590  Research Topics**
Credit units: None
ECTS Credit Units: 6. Aut (Staff) Spr (Staff)

**IAED 599  Master's Thesis**
Credit units: None
ECTS Credit Units: 24. Aut (Staff) Spr (Staff)
DEPARTMENT OF LANDSCAPE ARCHITECTURE AND URBAN DESIGN


The design of urban environments requires the skills of conceptualization at different scales, proposing solutions, and their implementation. Another requirement is developing familiarity with such issues as heterogeneous human populations, dense building stocks, natural and environmental assets, a specialized labor force and a shared urban identity, as well as building 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, architecture and anthropology.

UNDERGRADUATE PROGRAM

Unlike other programs of landscape architecture, the Department of Landscape Architecture and Urban Design 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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<td>FA 101 Basic Design I</td>
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<tr>
<td>FA 103 Drawing I</td>
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<tr>
<td>FA 131 Technical Drawing and Lettering I</td>
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<tr>
<td>FA 171 Introduction to Art and Culture I</td>
<td>3 / 5</td>
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<td>ENG 101 English and Composition I</td>
<td>3 / 6</td>
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<td>TURK 101 Turkish I</td>
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<td>FA 104 Drawing II</td>
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<tr>
<td>FA 132 Technical Drawing and Lettering II</td>
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<tr>
<td>FA 172 Introduction to Art and Culture II</td>
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<tr>
<td>ENG 102 English and Composition II</td>
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<td>TURK 102 Turkish II</td>
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SECOND YEAR

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<tbody>
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<td>LAUD 190 Summer Practice I</td>
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<td>LAUD 201 Design Studio I</td>
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<tr>
<td>LAUD 221 Introduction to Urban Concepts</td>
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<tr>
<td>LAUD 241 Plant Material I</td>
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<tr>
<td>LAUD 251 Techniques and Materials of Landscape and Urban Environment I</td>
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<td>HIST 201</td>
<td>History of Turkish Republic I</td>
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<td>LAUD 212</td>
<td>Computers and Geometry</td>
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<td>LAUD 242</td>
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<td>LAUD 301</td>
<td>Design Studio III</td>
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<tr>
<td>LAUD 311</td>
<td>Computer Aided Design</td>
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<tr>
<td>LAUD 351</td>
<td>Techniques and Materials of Landscape and Urban Environment III</td>
<td>3 / 5</td>
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<td>LAUD 371</td>
<td>Analysis of Urban Environment I</td>
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<td>LAUD 372</td>
<td>Analysis of Urban Environment II</td>
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**Spring Semester** |                                         |                        |
| LAUD 302   | Design Studio IV                                                  | 6 / 10                 |
| LAUD 322   | People and Environment                                            | 3 / 5                  |
| LAUD 342   | Planting Design                                                   | 3 / 4                  |
| LAUD 372   | Analysis of Urban Environment II                                  | 3 / 5                  |
|            | Restricted Elective(1)                                            | 3 / 6                  |

**FOURTH YEAR**

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<td>LAUD 401</td>
<td>Design Studio V</td>
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<tr>
<td>LAUD 417</td>
<td>Contract Documents</td>
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<tr>
<td>LAUD 471</td>
<td>Urban Sociology</td>
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**Spring Semester** |                                         |                        |
| LAUD 402   | Senior Design Studio                                              | 6 / 10                 |
| LAUD 404   | Senior Design Research                                            | 3 / 4                  |
| LAUD 418   | Professional Practice                                             | 3 / 4                  |
|            | Restricted Elective(2)                                            | 6 / 12                 |

**ELECTIVES**

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<tr>
<td>LAUD 312</td>
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COURSE DESCRIPTIONS

UNDERGRADUATE COURSES

LAUD 190  Summer Practice I
This first part of summer training 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 demonstrated. This part of the summer training will have both field surveying and drawing components. The second part aims to provide basic computer literacy to help students throughout their education for processing data, word processing and researching through the Internet. Credit units: None ECTS Credit Units: Aut (G. Çulcuğlu) Spr (G. Çulcuğlu)

LAUD 201  Design Studio I
A studio of an interdisciplinary nature that tends to investigate the role of nature and environmental factors on the built environment. Analytical work supplemented with lectures, followed by elementary designs to practice the design process involved in environmental design. Credit units: 6 ECTS Credit Units: 10, Prerequisite: FA 102. Aut (D. Altay, F. Korkmaz Direnç)

LAUD 202  Design Studio II
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. A fully covered text processor. Basic geometric concepts related to two and three dimensional design are introduced through various software systems. Credit units: 3 ECTS Credit Units: 5. Spr (O. Nalbantoğlu)

LAUD 221  Introduction to Urban Concepts
This introductory course, consisting of lectures and fieldwork, aims to provide a foundation for the concepts and issues related to urban environment. The cultural, social and economical factors that influence the urban context are discussed, and the students are expected to do fieldwork using the techniques introduced in the course. Credit units: 3 ECTS Credit Units: 4. Aut (D. Altay)

LAUD 241  Plant Material I
This beginning level lecture and field study course is the first one of a series of courses on plants. The aim here is to introduce basic plants that are used in landscape architecture, with an emphasis on their visual characteristics, ecological requirements and their use in design. The course also involves term projects for building a general framework to familiarize the students with the variety of Turkey's regional flora. Credit units: 3 ECTS Credit Units: 5. Aut (G. Çulcuğlu)

LAUD 242  Plant Material II
A lecture and studio/field course studying the design characteristics and landscape use of plant materials available in Turkey. This includes the principles of planting design, the aesthetic and functional use of plant material and the preparation of planting plans and plant schedules. Students are expected to prepare a plant manual. Credit units: 3 ECTS Credit Units: 4. Spr (G. Çulcuğlu)

LAUD 251  Techniques and Materials of Landscape and Urban Environment I
In this first course of a series of courses on technical aspects, the natural environment and its resources are introduced as basic elements of site design. Climatic factors, topography, soil, water and vegetation are discussed to provide a foundation on which to build further knowledge on site development and construction. Credit units: 3 ECTS Credit Units: 5. Aut (D. Özü)

LAUD 252  Techniques and Materials of Landscape and Urban Environment II
A lecture and studio/field course, investigating the variety of hard materials available and suitable for landscape and urban construction. The emphasis is on appearance, physical properties and behavior and cost effectiveness. The principles of designing construction details are investigated. Credit units: 3 ECTS Credit Units: 5. Spr (Staff)

LAUD 261  History of Landscape and Urban Environment I
A survey of selected examples from the built environment covering the Antiquity and Middle Ages with particular emphasis on the landscape and urban formations. Credit units: 3 ECTS Credit Units: 5. Aut (S. A. Tokol)

LAUD 262  History of Landscape and Urban Environment II
Analysis of elements of the built environment starting from the Renaissance until today. Examples are investigated to demonstrate the historic background of the evolution of the exterior spaces with respect to the landscape and urban context. Credit units: 3 ECTS Credit Units: 5. Spr (S. A. Tokol)
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: . Aut (G. Çalışçı) Spr (G. Çalışçı)

LAUD 301  Design Studio III
Medium scale projects that involve planning and architectural consideration, including aspects of settlement design and townscape. Appreciation of building and site relationships and evaluation of indoor-outdoor spaces. Emphasis is also given to design levels (phases) and effects of land form. Credit units: 6 ECTS Credit Units: 10, Prerequisite: LAUD 202. Aut (K. Arapkırlıoğlu, S. Teber)

LAUD 302  Design Studio IV
Emphasis on hard and soft details while dealing with small and medium scaled projects. Construction details, material specifications, planting plans and schedules, irrigation layouts are prepared. Considerations related to landform and leveling, climatic factors and social influences are integrated. 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 (O. Nalbantoğlu)

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, Prerequisite: LAUD 311. Spr (K. Yeşilkaya)

LAUD 314  Presentation Techniques
The course aims at improving presentation skills in design process through various techniques by means of visual and verbal presentations and illustrations. The course is preceded by series of lectures and discussions including basics of presentation techniques, elements and concepts of design process. Students will be assigned projects and will start to create their own portfolios for their professional and academic life. Credit units: 3 ECTS Credit Units: .

LAUD 322  People and Environment
Human behavior and its relation to design of environments. Concepts such as private and public space, territoriality, perception and cognition of spaces, and spatial experience are explored. Credit units: 3 ECTS Credit Units: 5. Spr (K. Arapkırlıoğlu)

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 (Staff)

LAUD 342  Planting Design
This course focuses on the identification and study of plant materials as landscape design elements. Theoretical aspects of planting design is studied to provide a basis for plant selection and arrangement in landscape projects of various scales and contexts. Credit units: 3 ECTS Credit Units: 4. Spr (Staff)

LAUD 351  Techniques and Materials of Landscape and Urban Environment III
A lecture and studio/field course investigating the methods of installation of hard materials in landscape and urban construction with emphasis on structural concepts and practical requirements of implementation. Issues of infrastructure, soil types and irrigation are also introduced. This involves the preparation of construction details, setting-out drawings and writing simple specifications. Credit units: 3 ECTS Credit Units: 5. Aut (O. Nalbantoğlu)

LAUD 362  Making of Urban Landscape
A field study oriented elective course dealing with arranged structures on urban land and shaped spaces in between. The aim is to reveal the “spirit of the place”, to make places which enhance everyday life. Survey, analysis, diagnosis and design/reshaping of the city’s components to see the relations between these pieces and to assess their condition, to understand the city’s element, their working form and consequent appearance. Related issues will be linked to architecture, engineering, landscape architecture, city planning and visual arts.
The subject area is concerned with public open spaces, squares, clusters of houses, transport amenities, cultural and educational complexes, malls and plazas, parking areas, recreational areas, etc. Credit units: 3 ECTS Credit Units: 6.

LAUD 371 Analysis of Urban Environment I
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: 4. Aut (D. Altay)

LAUD 372 Analysis of Urban Environment II
Analysis of the physical and cultural factors that shape residential communities in urban settings. Credit units: 3 ECTS Credit Units: 5. Spr (D. Altay)

LAUD 381 Conservation Planning and Design
This course aims to introduce the students with urban and archaeological conservation as well as renewal planning and policy issues. Principles of conservation are focused and urban design examples in urban historic sites both in Turkey and abroad are studied. Within this context, legal and institutional framework of urban and archaeological site conservation, governmental policies, sustainable conservation policies, survey and planning methods and materials will be dealt with. Credit units: 3 ECTS Credit Units: 6.

LAUD 390 Summer Practice III
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: . Aut (G. Çulcuoğlu) Spr (G. Çulcuoğlu)

LAUD 401 Design Studio V
A studio course designed to equip the students with knowledge pertaining to other design disciplines and professions that take part in the formation of the built environment. Issues related to urban planning and design, architecture, landscape architecture and interior architecture are handled in varying scales of the built environment. Site visits, supplementary lectures and multidisciplinary team work are encouraged. Credit units: 6 ECTS Credit Units: 10, Prerequisite: LAUD 302. Aut (G. Çulcuoğlu, S. A. Tokol)

LAUD 402 Senior Design Studio
A multi-scale project which requires submission of drawings that illustrate all aspects of the design process together with appropriate documentation. Individual effort is evaluated with respect to competence in all aspects of the professional practice. 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. Spr (S. A. Tokol)

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: 4. Aut (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: 4. Aut (O. Nalbantoğlu)

LAUD 421 Realization of Urban Projects
An interactive course studying the conditions/factors, partners/actors, elements of project realization 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. Ways of approach will be discussed with the students and the students will be exposed to different case studies. Credit units: 3 ECTS Credit Units: 6. Spr (Staff)

LAUD 432 Structuring and Infrastructuring in Urban Zones
This course aims to examine contemporary aspects and problems related to urban structures and infrastructures, at the scale of both metropolitan cities and medium size settlements. Topics to be covered include urban management and development, structuring and infrastructuring, alliance between physical and socio-cultural context, transportation, structuring in disaster zones and historic preservation. The course incorporates lectures
and site visits for in situ examination of cases. Students participation is expected and the evaluation of their performance is based on regular and take-home exams as well as an extensive term project. Credit units: 3 ECTS Credit Units: 6.

LAUD 441 Planting Plans
Principles and procedures for selection and arrangement of plant materials for specific uses, including climate modification, spatial definition, circulation control, soil and water conservation, etc., as expressed by planting plans and specifications. The course focuses on the development of the technical aspects of planting design at the project level. It clarifies the role of planting design in the package of design and construction drawings. The course consists of lectures, seminars, discussions, videos, studio work and critics. Credit units: 3 ECTS Credit Units: 6.

LAUD 442 Interior Planting Design
This course focuses on interior plants and their environmental and physical requirements, design principles and considerations about using interior plants with other landscape and architectural elements, preparation of base and construction plans, and maintenance requirements and techniques. 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 463 Design Scenarios for Everyday Spaces
The main objective of the course is to raise the questions of and the differences between “what is designed?” and “what is appropriated?” in the city. The focus of attention will be on the design processes rather than the finished products. During the course, students will reconsider the meanings, use, and designs of everyday spaces in our cities and learn to develop new ‘design scenarios’ for them. Particularly, the course will deal with facilities like urban vegetation and street furniture; built-forms like walls, facades, billboards, barriers, and gates opening onto public spaces; and a milieu of public spaces like small alleys, cul-de-sacs, streets, squares, pocket parks, abandoned spots, pedestrian bridges and passages. Credit units: 3 ECTS Credit Units: 6.

LAUD 465 Cities as Informationscapes
In regards to the information they contain or may generate, we call our living or working environments (i.e. cities) as “informationscapes”. While this course will focus on the specific urban contexts, we will investigate how cities as informationscapes are populated not only by static elements of information such as “buildings and physical objects”, but also “new media forms” ?dynamic elements such as people, living organism, or artifacts for the input and display of information. The aim of the course will be to produce the representation and communication of ideas and concepts related to our perceptions of these aspects of cities, as well as the different interactions and the labyrinthine narratives within the city. Credit units: 3 ECTS Credit Units: 6.

LAUD 471 Urban Sociology
The nature, causes and consequences of urbanization are studied, examining the social and demographic characteristics of urban populations and their spatial distributions in both developed and developing countries to demonstrate the relationship between the design of settlements and their social organization. Credit units: 3 ECTS Credit Units: 4. Aut (S. Teber)

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 emphasizes that the “success” of urban design and planning depends on the extent to which users’ cultural and spatial values are acknowledged. The interrelation between users’ cultural identity and location (who you are and where you are) is focused on. The objectives of the course are: (1) To provide theoretical background, (2) to study cultural meanings/uses attributed to space through a research project, and (3) to conclude policy implication from these projects. Credit units: 3 ECTS Credit Units: 6.

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. Tokol)

**LAUD 481 Landscape Ecology**
The objective is to explore the combination of ecosystems, its structure, function and changes. The course focuses on the distribution patterns of landscape elements of ecosystems, and the ecological changes in the landscape over time. The course consists of lectures, discussions, videos and site visits. Credit units: 3 ECTS

Credit Units: 6. Aut (K. Arapkirliğil)

**LAUD 482 Nature Conservation and Tourism**
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. Spr (K. Arapkirliğil)

**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. Aut (K. Arapkirliğil)
The Department offers undergraduate and graduate programs leading to B.S., M.B.A., M.S. and Ph.D. degrees.

The main concern 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.

ACADEMIC STAFF

Nuran Acur, Assistant Professor

Levent Akdeniz, Assistant Professor
Ph.D., Economics, University of Houston, 1996. Corporate finance, computational economics, numerical methods.

Nazli Akman, Instructor

Aslıhan Altay-Salih, Assistant Professor
Ph.D., Finance, University of Massachusetts, Amherst, 1995. Investments, asset allocation, futures and options markets, risk management.

Küsrat Aydoğan, Professor
Ph.D., Finance, Syracuse University, 1986. Investments, corporate finance, international finance.

Zahide Aygün Karakitapoglu, Assistant Professor

Emre Berk, Assistant Professor

Ümit Berkman, Professor
Ph.D., Public Administration, Syracuse University, 1975. Organization and management theory, comparative administrative systems, organization development.

Selçuk Caner, Assistant Professor

Gary Cunningham, Visiting Professor

Ahmet Ekici, Assistant Professor
Ph.D., Marketing, University of Nebraska, 2002. Public policy and marketing, relationship marketing, advertising.
Erdal Erel, Professor  
Ph.D., Industrial Engineering and Operations Research, Virginia Polytechnic Institute and State University, 1987. Production control and planning, scheduling, design of manufacturing systems.

Erhan Erkut, Professor  
Ph.D., Industrial Engineering, University of Florida, 1986. Facility location, transportation, hazardous materials transportation, emergency services system design.

Gülliz Ger, Professor  
Ph.D., Marketing, Northwestern University, 1985. Consumer behavior, culture and consumption.

Zeynep Girgin, Adjunct Instructor  

Yavuz Günalay, Assistant Professor  
Ph.D., Business Administration, McMaster University, 1996. Stochastic modeling, applications of queueing models to manufacturing and service systems, optimization.

Thomas Jefferson, Visiting Professor  
Ph.D., Management Science, Northwestern University, 1972. Optimization, international operations and distribution, information and communication systems.

Aysçe Kocabıyıkoğlu, Instructor  
Ph.D., Decision Sciences, INSEAD, 2005. Risk management, decision analysis, revenue management.

Süleyman Tuluğ Ok, Assistant Professor  

Zeynep Önder, Assistant Professor  

Dilek Önal, Professor  

Örsan Örge, Instructor  
Ph.D., Organizational behavior, University of Kansas, 2005. Process-oriented and relational approaches to organization, spacing and organization, organizational and strategic change.

Jacob Östberg, Visiting Assistant Professor  

Süheyla Özyıldırım, Associate Professor  

Anjariitta Rantanen, Instructor  

Özlem Sandıkçı, Assistant Professor  
Ph.D., Marketing, Pennsylvania State University, 1999. Consumer behavior, marketing management, advertising.

Doğan Serel, Assistant Professor  
Ph.D., Management Science, Purdue University, 1998. Production/operations management.

Donald Thompson, Visiting Professor  
Ph.D., Marketing, University of California, 1969. Marketing, economic regulation, strategic market planning.

Lale Tomruk, Instructor  
Frederick Woolley, Visiting Assistant Professor

Aydın Yüksel, Assistant Professor

PART-TIME ACADEMIC STAFF

Doğan Cansızlar, Ph.D., İstanbul University, 2000.
Ekrem Pakdemirli, Ph.D., Imperial College, 1967.
Marco Protano, M.B.A., Marketing, University of Virginia’s Darden School of Business, 1994.
Emin Veral, M.S., Cornell University, 1956.
DEPARTMENT OF MANAGEMENT


Part-time: D. Cansızlar, E. Pakdemirli, M. Protano, E. Veral.

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. Mathematics, statistics and computers are included to provide the background necessary for technical skills. In addition, the curriculum provides elective courses in different areas of business administration so that the students can focus on an area of their choice.

UNDERGRADUATE CURRICULUM

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<td>GE 100 Orientation</td>
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<td>ECON 101 Introduction to Economics I</td>
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<td>ENG 101 English and Composition I</td>
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<td>SOC 101 Introduction to Sociology</td>
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<td>TURK 101 Turkish I</td>
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<td>HCIV 101 History of Civilization I</td>
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<td>ENG 102 English and Composition II</td>
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<td>PSYC 102 Introduction to Social Psychology</td>
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<td>MAN 213 Principles of Financial Accounting</td>
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<td>MATH 227 Introduction to Linear Algebra</td>
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<td>CS 121 Introduction to Computing for Social Sciences</td>
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<tr>
<td>ECON 221 Introduction to Probability and Statistics I</td>
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<td>HIST 201 History of Turkish Republic I</td>
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<td>MAN 256 Introduction to Management Science</td>
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<td>MAN 262 Organizational Behavior</td>
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<td>CS 122 Introduction to Programming for Social Sciences</td>
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### THIRD YEAR

#### Autumn Semester

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<td>MAN 322</td>
<td>Money and Banking</td>
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<td>MAN 336</td>
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### FOURTH YEAR

#### Autumn Semester

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#### Spring Semester

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Students need to take a total of eight elective courses, at least four of which need to be from the Department of Management.

### ELECTIVES

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<td>MAN 404</td>
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<td>MAN 416</td>
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<td>Capital Markets and Institutions</td>
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<td>MAN 424</td>
<td>Risk Management</td>
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<td>MAN 426</td>
<td>Privatization</td>
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<td>MAN 429</td>
<td>Special Topics in Finance - Privatization</td>
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<td>MAN 431</td>
<td>Marketing Research</td>
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<td>MAN 432</td>
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<td>3 / 6</td>
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<td>MAN 436</td>
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<td>3 / 6</td>
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<td>MAN 445</td>
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<tr>
<td>MAN 446</td>
<td>Supply Chain Management</td>
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<td>MAN 457</td>
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<td>Management Skills</td>
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<tr>
<td>MAN 471</td>
<td>Motivation and Leadership</td>
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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, classroom discussions and summer internship. Computer applications, quantitative analysis and behavioral sciences are integrated into the program to provide for quantitative and qualitative aspects of management with an emphasis on the former. The graduates are equipped with the knowledge, skills and analytical thinking necessary to enhance the effectiveness and efficiency of the enterprises they will join.

The Bilkent MBA program allows students to pursue special interests in greater depth by offering elective courses in special areas such as Finance, Marketing, Organizational Behavior, Quantitative Methods, and International Business. Students who wish to pursue a structured course of study in one of these special areas can do so by taking their electives from the related field.

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, LES (Lisansüstü Eğitim Programı-Postgraduate Education Entrance Examination) scores (required from all Turkish citizens), 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 work over a period of two years with a minimum cumulative grade point average of 3.00/4.00.

CURRICULUM of the M.B.A. PROGRAM

FIRST YEAR

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<td>MAN 555</td>
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<td>MAN 557</td>
<td>Decision Science</td>
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<tr>
<td>MAN 561</td>
<td>Human Behavior in Organizations</td>
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<td>ECON 501</td>
<td>Economics I</td>
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<td>MAN 522</td>
<td>Corporate Finance</td>
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<tr>
<td>MAN 532</td>
<td>Marketing Management</td>
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<tr>
<td>MAN 542</td>
<td>Production and Operations Management</td>
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SECOND YEAR

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**ELECTIVES**

#### Finance

- MAN 513: Financial Statement Analysis 3 / 6
- MAN 515: Managerial Accounting 3 / 6
- MAN 518: Risk Management 3 / 6
- MAN 523: Financial Institutions and Markets 3 / 6
- MAN 524: Investment Analysis 3 / 6
- MAN 526: International Finance 3 / 6
- MAN 545: Service Operations Management 3 / 6
- MAN 546: Supply Chain Management 3 / 6
- MAN 547: Project Management 3 / 6
- MAN 548: Quality Management 3 / 6
- MAN 577: Financial Intermediation 3 / 6
- MAN 583: Financial Modeling and Applications 3 / 6
- MAN 586: Real Estate Finance 3 / 6

#### Marketing

- MAN 533: Marketing Research 3 / 6
- MAN 534: Marketing Strategy 3 / 6
- MAN 535: Special Topics in Marketing 3 / 6
- MAN 536: International Marketing Management 3 / 6
- MAN 538: Advertising Management 3 / 6
- MAN 539: Consumer Behavior 3 / 6
- MAN 571: Research Methods in Business 3 / 6
- MAN 581: Brand Planning 3 / 6

#### Organizational Behavior

- MAN 567: Organization Development 3 / 6
- MAN 568: Management Skills 3 / 6
- MAN 576: Organization Design and Change Management 3 / 6
- MAN 582: Group Processes and Team Dynamics 3 / 6

#### Quantitative Methods

- MAN 543: Manufacturing Strategy 3 / 6
- MAN 544: Procurement and Inventory Systems 3 / 6
- MAN 558: Management Information Systems 3 / 6
- MAN 578: Revenue Management 3 / 6

#### International Business

- MAN 508: International Business Practices 3 / 6
- MAN 531: Global Perspectives 3 / 6
- MAN 564: Change Management 3 / 6
- MAN 565: Global Competition and Strategy 3 / 6
- MAN 570: Special Topics in Business Administration I 3 / 6
- MAN 572: European Community Law 3 / 6
- IR 501: International Relations Theory 3 / 6
- IR 530: History and Politics in the Balkans 3 / 6
MASTER OF SCIENCE and Ph.D. PROGRAMS

The Faculty of Business Administration at Bilkent University offers the Doctor of Philosophy degree for those interested in advanced study of the theory and practice of management in the areas of Finance, Marketing, Operations Management and Decision Sciences. The Bilkent PhD Program in Business Administration finds its mission in preparing individuals for academic research and teaching careers, and reflects the dedication of our faculty to excellence in teaching and research. A high faculty-to-student ratio and active involvement in research from the start foster close interaction between students and faculty, and accelerate the transition from student 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. The visiting scholars and graduate students from abroad add to the diversity of our community and enrich our individual experiences. The programs emphasize independent inquiry, developing methodological skills and communicating research findings through publications in leading scientific and professional journals.

Students who have an excellent academic background and promising research potential are normally admitted first to the M.S. program and those who demonstrate an outstanding academic performance during the M.S. program are later admitted to the Ph.D. program. The M.S. and Ph.D. programs accept students in all areas of business administration, although there may be some constraints in certain disciplines. The normal duration of successfully completing the M.S. and Ph.D. programs is around four calendar years.

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 scores and provide recommendation letters. Proficiency in written and oral English must also be documented. (Also refer to the “Graduate Admissions” section in the introduction of this catalog for the general graduate admission requirements.)

Requirements: Students have to complete 27 credit hours of course work, as tentatively indicated below, write and defend a master's thesis and maintain a cumulative GPA of at least 3.00/4.00. The maximum duration of M.S. study is four semesters.

Prior to starting the program in the Autumn semester of the first year, students take a deficiency program during the summer. The courses they take during the summer depend on their background.

Doctor of Philosophy

Admission: An M.S. or M.A. degree in a relevant field of study in business administration is required. Applicants must be fluent in written and oral English, and possess strong quantitative and qualitative skills. Candidates should also take a written examination or submit GMAT scores. Proficiency in written and oral English must also be documented. (Also refer to the “Graduate Admissions” section in the introduction of this catalog for the general graduate admission requirements.)

Requirements: The Ph.D. program consists of a course work of at least 24 credit hours, as tentatively indicated below, a major field examination, preparation 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. No matter what the chosen field of study is, every Ph.D. student should complete a graduate course in each functional area; namely, finance, marketing, accounting, production/operations management, and organization theory/behavior. An M.B.A. degree usually satisfies this requirement.
M.S. and Ph.D. degrees are offered in the following three tracks: Finance, Marketing, and Operations Management and Decision Sciences.

M.S. Program in Operations Management and Decision Sciences

**FIRST YEAR**

**Autumn Semester**

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<tr>
<td>IE 523</td>
<td>Probabilistic Analysis</td>
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<tr>
<td>ECON 501</td>
<td>Economics I</td>
<td>3 / 6</td>
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<td>ECON 515</td>
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**Spring Semester**

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<td>IE 521</td>
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</tr>
<tr>
<td>ECON 510</td>
<td>Probability and Statistics II</td>
<td>3 / 6</td>
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<td>Mathematics for Economists II</td>
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**SECOND YEAR**

**Autumn Semester**

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<td>MAN 607</td>
<td>Philosophy and Epistemology of Scientific Inquiry</td>
<td>3 / 6</td>
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<tr>
<td>IE 513</td>
<td>Linear Programming</td>
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Ph.D. Program in Operations Management and Decision Sciences

**FIRST YEAR**

**Autumn Semester**

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<td>IE 513</td>
<td>Linear Programming</td>
<td>3 / 6</td>
</tr>
<tr>
<td>IE 523</td>
<td>Probabilistic Analysis</td>
<td>3 / 6</td>
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**Spring Semester**

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**SECOND YEAR**

**Autumn Semester**

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### THIRD YEAR

#### Autumn Semester

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#### Spring Semester

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### FOURTH YEAR

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### M.S. Program in Marketing

#### FIRST YEAR

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<td>MAN 601</td>
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#### SECOND YEAR

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</tr>
<tr>
<td>MAN 607</td>
<td>Philosophy and Epistemology of Scientific Inquiry</td>
<td>3 / 6</td>
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#### Spring Semester

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### Ph.D. Program in Marketing

#### FIRST YEAR

#### Autumn Semester

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<td>MAN 605</td>
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<td>MAN 655</td>
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<td>Decision Analysis</td>
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<td>MAN 634</td>
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SECOND YEAR

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ECON 511 Econometrics I

Spring Semester

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COURSE DESCRIPTIONS

UNDERGRADUATE COURSES

MAN 201 Introduction to Business
An introductory course which covers basic business functions such as marketing, accounting, finance, production and management from the perspective of a business organization. Institutional framework and relations of the business firm with its environment are also emphasized. Credit units: 3 ECTS Credit Units: 6. Aut (Z. Aygün Karakitapoglu, Z. Gergic)

MAN 213 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, 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 (N. Akman, G. Cunningham, S. T. Ok) Spr (Staff)

MAN 216 Elements of Finance
An introductory course on the building blocks of financial decision making. Topics include financial system, its functions, institutions and instruments, risk and return, time value of money, valuation of securities, and elements of international finance. Credit units: 3 ECTS Credit Units: 6. Aut (Staff)

MAN 256 Introduction to Management Science
A general overview of operations research with selected applications from management systems and interdisciplinary areas. The methodology of mathematical modeling and its relation to problems in industrial, commercial and public systems. Introduction to linear programming: the simplex method, duality, sensitivity analysis and related topics. Credit units: 3 ECTS Credit Units: 6. Prerequisite: MATH 227 and ENG 102. Aut (D. Serel) Spr (Staff)

MAN 262 Organizational Behavior
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. Credit units: 3 ECTS Credit Units: 6. Aut (Z. Aygün Karakitapoglu) Spr (Staff)
MAN 300  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, Prerequisite: MAN 201. Aut (A. Rantanen)

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: MAN 201. Spr (Staff)

MAN 312  Managerial Accounting
The aim of the course is to introduce the students 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. Credit units: 3 ECTS Credit Units: 6, Prerequisite: MAN 212 or MAN 213. Spr (Staff)

MAN 321  Corporate Finance
An introductory course in business finance with emphasis on investment and financing decisions of the firm. Topics include ratio analysis, profit planning, capital budgeting, capital structure, cost of capital, dividend policy, working capital management and international finance. Credit units: 3 ECTS Credit Units: 6, Prerequisite: MAN 211 or MAN 213 and ECON 102. Aut (A. Altay-Salih, K. Aydogan, Z. Onder, A. Yüksel) Spr (Staff)

MAN 322  Money and Banking
Explanation of the nature and functions of money and credit. An analysis of the structure and operations of the commercial and central banking systems. Formation, execution and effectiveness of monetary policy. Credit units: 3 ECTS Credit Units: 6, Prerequisite: ECON 101; ECON 102 and ECON 222. Spr (Staff)

MAN 332  Marketing Strategy
Investigation of marketing strategy formulation and decision making. Cases are used to assess the marketing strategies and practices of private or public organizations and to apply the concepts being examined. The focus is on analyses of market forces and opportunities, and determination and integration of marketing objectives, strategies and plans. Credit units: 3 ECTS Credit Units: 6, Prerequisite: MAN 331 or MAN 335; MAN 331. Aut (D. Thompson) Spr (Staff)

MAN 333  Marketing Principles
An analytical study of marketing as a major business function, a consumer orientation throughout the organization, as well as integrated communications. Topics include an overview of the marketing system, the marketing concept, market research, market analysis, marketing 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. The emphasis is on marketing programs as integrated marketing communications. Credit units: 3 ECTS Credit Units: 6. Aut (J. Östberg)

MAN 335  Fundamentals of Marketing
The course introduces the 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 ECON 102 and MAN 201. Aut (JÖstberg, D. Thompson) Spr (Staff)

MAN 336  Marketing Management
Building on the fundamentals of marketing, the course addresses effective management of the challenges facing marketing managers in contemporary world. By focusing on topics such as product development, quality management, symbolic communication, and consumer analysis, the objective of the course is to develop students' analytical and creative skills for designing and implementing the best combination of marketing actions. Credit units: 3 ECTS Credit Units: 6, Prerequisite: MAN 335. Spr (Staff)

MAN 341  Production Management
Examination of the nature and content of methods of quantitative analysis employed in production management decision making; design of production systems; plant location and layout; scheduling of operations; inventory systems; quality control techniques. Credit units: 3 ECTS Credit Units: 6, Prerequisite: MAN 256. Aut (E. Berk, D. Serel)
MAN 342  Production Planning, Scheduling and Control
This course 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. Spr (Staff)

MAN 352  Management Information Systems
Information requirements of business organizations; principles, concepts, design for managerial purposes; use and implications of computer technology for management decisions and processes. Credit units: 3 ECTS Credit Units: 6, Prerequisite: MAN 253 or CS 121. Aut (Y. Günalay)

MAN 361  Organization Theory
Introduction to organization theory; the concept of organization, types of organizations, the functions and role of the manager within business organizations. Credit units: 3 ECTS Credit Units: 6, Prerequisite: MAN 262. Aut (Ö. Örge, F. Woolley)

MAN 401  Managerial Economics
Applications of the basic concepts of micro-economic theory in the solution of business problems. The study of demand, production, cost and pricing are emphasized. Credit units: 3 ECTS Credit Units: 6, Prerequisite: senior standing. Aut (L. Akdeniz, S. Caner, S.Özyıldırım)

MAN 403  International Business
Identification, analysis and resolution of managerial issues within the context of business firms with international operations. Emphasis is on problems of adaptation in accordance with different economic, legal, political, sociological and cultural characteristics. Credit units: 3 ECTS Credit Units: 6, Prerequisite: senior standing. Aut (L. Tomruk)

MAN 404  Investment Analysis
Conceptual and analytical frameworks for formulating investment policies and security analysis. Development of portfolio theory and construction of portfolio strategies for individuals and institutions. Credit units: 3 ECTS Credit Units: 6, Prerequisite: MAN 321. Aut (A. Yüksel) Spr (Staff)

MAN 405  Independent Study
Independent research or study under the guidance of a faculty member. Credit units: 3 ECTS Credit Units: 6, Prerequisite: senior standing. Aut (F. Woolley)

MAN 406  Business Strategy
This course focuses on firms' strategies in today's highly competitive environment. In a complex world of rapid technological changes, constantly changing markets, increasing demand for social responsibility and ethics, companies are forced to adopt and implement new business strategies. Strategic management is viewed as a basic skill for all managers rather than the speciality of a particular function or organizational level. Credit units: 3 ECTS Credit Units: 6, Prerequisite: MAN 321 and MAN 331 and MAN 341; MAN 321 and MAN 341 and MAN 335. Spr (Staff)

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 212 or MAN 213; MAN 212.

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 321 and ECON 222. Spr (Staff)

MAN 421  Capital Markets and Institutions
This course gives an introduction to the analysis of the participants, relationships, instruments and institutions of money and capital markets. Topics covered also include problems and trends in global and domestic financial markets. Credit units: 3 ECTS Credit Units: 6, Prerequisite: ECON 102 and MAN 321. Aut (D. Cansızlar)
MAN 422  International Finance  
Financial management of foreign operations of the firm. Financial constraints imposed by the international environment and their effect on the financial function of the firm. Also included are the functioning of foreign exchange markets, international money and capital markets. Credit units: 3 ECTS Credit Units: 6, Prerequisite: consent of instructor.

MAN 423  Financial Modeling  
The purpose of this course is to enable students to use computers and selected software when solving business financial problems. Spreadsheet and simulation programs are the primary tools of the course. Students will work on exercises that cover various aspects of corporate finance and investments. Credit units: 3 ECTS Credit Units: 6, Prerequisite: MAN 321 and ECON 221. Spr (Staff)

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. Spr (Staff)

MAN 429  Special Topics in Finance - Privatization  
This course begins by focusing on the Turkish economy, briefly tracing its development from its early etatism days until the current period, outlining the hopes of privatization’s advocates, the practical results that inhibited serious privatization actions, and changing environment in more recent years that breathed life into privatization’s policies. One cannot, however, appreciate the Turkish experience in vacuum. Hence, the course spends most of its time discussing privatization issues and experiences in a global setting. It analyzes first the overall issues of the government’s role in a modern market economy, starting with a basic question: “Why have governments the world over become involved in business?” After analyzing the problems of state-owned enterprises (SOEs) and other types of government operations, the course moves on to discuss reforming SOEs. The next phase involves privatization itself - issues dealing with state sale of SOEs and its impact (such as does privatization cause unemployment?) as well as the question of a market for corporate control. Throughout the course, examples from both the developed and developing world are used to relate the concepts introduced to actual experience. Time permitting, the experience of some transition countries and developing nations will be examined as may be some specific industries such as banking. The course aims to provide an objective view of a controversial current topic that is most frequently discussed through the prism of belief rather than evidence. Credit units: 3 ECTS Credit Units: 6. Aut (Staff)

MAN 431  Marketing Research  
Development of market research objectives and processes. Introduction to market research approaches including qualitative survey and experimentation, and design of the research methodology. Also a short overview of methods of measuring consumer reactions to product characteristics, effectiveness of advertising, and other promotional devices. Credit units: 3 ECTS Credit Units: 6, Prerequisite: MAN 331 or consent of instructor. Aut (A. Ekici)

MAN 432  Consumer Behavior  
A study of the nature and determinants of consumer behavior. Examines how individuals process information and make decisions; 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. To enhance understanding and prediction of market place behavior and demand analysis, emphasizes applications to the development of marketing policy planning and strategy. Credit units: 3 ECTS Credit Units: 6, Prerequisite: MAN 331 or consent of instructor. Aut (O. Sandıkçı)

MAN 433  International Marketing  
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 331 and MAN 332 or consent of instructor. Spr (Staff)

MAN 434  Advertising Management  
This course is intended to give students a basic understanding of the advertising and promotion management process. This includes the agency/client relationship, development of advertising objectives, promotional strategies, message execution, media selection, budgeting and integration of advertising with the other elements of the promotional and marketing mixes. Credit units: 3 ECTS Credit Units: 6, Prerequisite: MAN 331 or consent of instructor. Spr (Staff)

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 331 or consent of instructor.

MAN 437 Retail Management
Learning retailing terminology and discussing today's changing retailing concepts in light of retailing studies and knowledge are the main goals of this course. The retailer is one of the most important distribution channel member and the only member with the ability to change the effects of the manufacturer's push and pull strategies, and thus the total channel members' interactions is the main focus in the first part of the course. Retail stores are also places where consumers first face the manufacturers' products. Therefore, retail store management and the factors that influence in-store activities constitute the second part of the course. Credit units: 3 ECTS Credit Units: 6, Prerequisite: MAN 331; MAN 332 or MAN 336.

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: MAN 256.

MAN 442 Service Operations Management
SOM is designed to develop an understanding of those aspects of management of particular importance to service-producing as opposed to goods-producing firms, and to encourage analytical thinking about all services that affect our lives. Topics such as service quality, service guarantees, design of service delivery systems, supply and demand management, management of waiting lines, and productivity improvement are discussed. Credit units: 3 ECTS Credit Units: 6, Prerequisite: MAN 341. Aut (T. Jefferson)

MAN 443 Operations Strategy
This is an undergraduate elective course designed to study the content and process of competitive impact of operational decisions. It utilizes the basic concepts developed in the operations management sequence, but focuses on the strategic aspects not covered in such introductory courses. The course begins with a general overview of operations strategy at the theoretical level. A selected number of empirical studies expose the students to the issues of measuring operations performance and identifying operations strategies. The practice exercises are intended to expose students to a range of concepts, tools and techniques in simulated environments for addressing issues such as the design and evolution of operating networks, the selection and development of process technologies, and the creation of operating systems that effectively connect operations with customers, distribution channels, and suppliers. Credit units: 3 ECTS Credit Units: 6.

MAN 445 Total Quality Management
Quality is an integral part of doing business in today's world. Every organization must meet the challenge of providing goods and services that exceed the customer's expectations. This course is designed to teach students the basic quality concepts and techniques of total quality management, quality culture, quality improvement, quality costs, quality systems, statistical process control, reliability and liability. Credit units: 3 ECTS Credit Units: 6, Prerequisite: ECON 222. Aut (T. Jefferson)

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.

MAN 451 Decision Analysis
Examines decision making under uncertainty. Introduction to statistical decision theory and game theory. Utilities and probabilities, optimal decision and information rules, and risk aversion. Credit units: 3 ECTS Credit Units: 6, Aut (A. Kocabıyıkaloğlu)

MAN 457 Information Systems Planning
An Internet Protocol (IP) based network architecture project course. Interdisciplinary teams composed of four senior students from the Engineering and Management faculties develop technical business proposals for a new network service provider entering the market. Business case includes a cost-effective network design and planning based on through analysis of market needs. Students learn about the data communication industry, comprehend different network architectures, understand venture capital business, and experience working in an
interdisciplinary environment. At the end of the semester, each group is required to developed a business case built on engineering and business analysis of the market and involved technologies. **Credit units: 3 ECTS Credit Units: 6.**

**MAN 460 Organizational Symbolism and Culture**
Cultural and symbolic processes are an essential part of organizing practices in today's business life. Serving as a foundation to understand these processes, this course is an introduction to the analysis of organizational culture in contemporary business organizations. The course examines the nature of organizational cultures; how they evolve into being and get legitimized; how they are managed and sustained; and, the processes through which they change over time. In the course, these cultural processes are analyzed from multiple theoretical perspectives. This analysis is also put into practice through an application component in which students engage in hands-on cultural analysis of an actual organization. **Credit units: 3 ECTS Credit Units: 6, Prerequisite: MAN 262 and MAN 361. Aut (Ö. Örge)**

**MAN 461 Organization Development**
Analysis of recent literature on organizations, organizational structure, organizational behavior, organizational change and design; the interaction of design strategies in terms of planned change and development. **Credit units: 3 ECTS Credit Units: 6, Prerequisite: consent of instructor.**

**MAN 462 Human Resources Management**
An introduction to personnel management. Survey of theories, practices and problems encountered in securing, allocating, compensating, developing, and effectively using human resources in organizations. The design of systems of rewards, assessment, and manpower development. **Credit units: 3 ECTS Credit Units: 6, Prerequisite: MAN 262 and MAN 361 or consent of instructor.**

**MAN 464 Change Management**
This course addresses management of change at four settings: societal, interorganizational, large corporations and organizations. The course is project oriented and applies action research methodology to the projects. The purpose of the engagement is to get involved in the steering of the change efforts as well as to diagnose the resistance to the proposed change programs. Global and local, centralized and decentralized, large and small dialectical perspectives are analyzed. **Credit units: 3 ECTS Credit Units: 6, Prerequisite: MAN 262 and MAN 361 or consent of instructor. Aut (N. Acar) Spr (Staff)**

**MAN 466 Management Skills**
The central function of all managers is to direct, coordinate and control the efforts of others in order to achieve organizational goals. The quality of the interface between managers and the “others” in the organization is critical not only to organizational success, but also to individual managerial success. The quality of the interface varies according to the knowledge, skills, abilities, and attitudes brought to it by managers. This course seeks to develop appropriate managerial knowledge and attitudes concerning the “interface” by examining the theoretical functions of critical managerial skills, and to provide opportunities to develop basic competencies in selected skill areas. **Credit units: 3 ECTS Credit Units: 6, Prerequisite: MAN 361.**

**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 that will be distributed to the class. **Credit units: 3 ECTS Credit Units: 6.**

**MAN 471 Motivation and Leadership**
The main objective of this course is to introduce the basic concepts and theoretical perspectives on motivation and leadership that are useful for understanding human behavior in organizations. It offers an extensive examination of the nature of leadership and motivation in organizations with an emphasis on both theoretical and practical understanding. At the end of this course, students should have a better conceptual sense of leadership and motivation, and important insights into themselves as potential leaders and motivators. **Credit units: 3 ECTS Credit Units: 6, Prerequisite: MAN 262.**

**MAN 474 European Union and Turkey: Trade and Policies**
This is an interdisciplinary course introducing the students to the European Union and Turkey-EU relations. After a review of EU history and institutional and legal framework, emphases will be on external and internal trade law and implementation of the Customs Union Decision between Turkey and the EU. Full membership criteria are also discussed. **Credit units: 3 ECTS Credit Units: 6. Aut (A. Rantanen) Spr (Staff)**
MAN 477  Financial Intermediation
The goal of the course is to provide theoretical and practical understanding of the financial intermediation especially commercial banking. The main topics are: the economic role of financial intermediation in producing and monitoring of borrowers; risk faced by financial intermediary's managers and methods through which these risks are managed; the rationale for regulation. The problem of adverse selection and moral hazard will be introduced in order to understand efficient functioning of the financial intermediaries. Credit units: 3 ECTS Credit Units: 6, Prerequisite: MAN 321 and MAN 322.

MAN 482  The Global Economy
Globalization became an all purpose catchword in public and scholarly debate as we began a new century. Governments attribute their country's economic problems to global forces that are beyond their control; business leaders justify downsizing of companies as necessary to prepare for globalization and advocates for local cultures blame the disappearance of tradition and culture on uncontrollable globalization. The objective of this course is to examine the economic, political and cultural aspects of globalization. In doing so, we will try to answer several questions related to the globalization phenomenon: What does globalization involve? Is globalization new?, Is globalization driven by the expanding market?, Does globalization make the world more homogeneous?, Does globalization determine local events?, and Is globalization harmful? The goal is to assist the students in understanding the patterns and problems of globalization, which is likely to be a dominant concern of the twenty-first century. Credit units: 3 ECTS Credit Units: 6.

MAN 483  Entrepreneurial Management
The course aims to give additional tools and knowledge to graduating students to create their own business, or to acquire share of already running business or to become top executives who shape the future of companies in which they work. Lectures will be augmented by case discussions. Groups of students will do a term project in which an entrepreneurial example will be evaluated in detail. Throughout the semester, prominent businessmen and top executives will be invited to the class to share their experience through active participation of the students. Credit units: 3 ECTS Credit Units: 6. Aut (E. Pakdemirli) Spr (Staff)

MAN 485  Real Estate Finance
This course deals with the central issues in real estate finance and investment. Typical policies and procedures used in financing of residential, industrial, and commercial properties are discussed. Topics include methods of measuring rates of return, feasibility and appraisal processes, risk analysis, equity and debt financing vehicles. Real estate investment trusts and mortgage backed securities are also covered. Credit units: 3 ECTS Credit Units: 6, Prerequisite: MAN 321.

MAN 490  Business Case Analysis
Business case analyses and competitions provide opportunities to synthesize codified knowledge, to develop the skills of decisionmaking in the face of ambiguity, to acquire a global view of management, to assess personal strengths and competencies, and thereby, prepare for a professional managerial career. This course aims to develop, in simulated settings, the skills of extracting information from data, identifying and contextualizing management problems within the frameworks of management theories, proposing solutions to multi-dimensional management problems and communicating ideas effectively. Teamwork, time management, written and oral presentation skills are to be stressed. The course also intends to prepare Bilkent business administration students for national and international case competitions. Credit units: 3 ECTS Credit Units: 6, Prerequisite: MAN 321 and MAN 336 and MAN 401. Aut (E. Berk)

MAN 501  Business Policy
A capstone course utilizing comprehensive cases as the means of integrating all aspects of strategic management. Synthesizes 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. Credit units: 3 ECTS Credit Units: 6. Spr (Staff)

MAN 502  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: 3 ECTS Credit Units: 6. Aut (U. Berkman) Spr (Staff)

MAN 505  Business Communications
Developing and strengthening the ability to reach others through the spoken and written word. Preparing students for the type of writing and speaking that will be expected of them during business careers. Credit units: 3 ECTS Credit Units: 6. Spr (Staff)
MAN 507 Business Law
The objective is to cover major legal concepts most often affecting business transactions and relationships. Topics will include areas of the law such as contract, corporations, partnerships and agency. Students will be equipped with sufficient knowledge to recognize when a legal problem exists. Credit units: 3 ECTS Credit Units: 6. Aut (A. Rantanen)

MAN 508 International Business Practices
This course is designed to discuss the new realities of global competition due to rapid internationalization of markets and production systems taking place all over the world. It consists of a series of lectures on international business issues and practices such as business networking, strategic alliances, joint ventures, partnerships and doing business in countries having different cultures, economic systems, values and practices. Lectures will be delivered by a team of distinguished business persons, convey the new realities of global competition. Credit units: 3 ECTS Credit Units: 6.

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, coventures, and foreign direct investment will be reviewed providing actual real life examples. Credit units: 3 ECTS Credit Units: 6. Aut (E. Veral)

MAN 511 Accounting
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 (G. Cunningham)

MAN 513 Financial Statement Analysis
This course aims at providing the student with 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 relation to market and industry factors, time series behavior of earnings and forecasting models are also investigated. Credit units: 3 ECTS Credit Units: 6.

MAN 515 Managerial Accounting
The primary objective of this course is to teach the skills, tools and managerial insights for intelligent and ethical decision making. 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: 3 ECTS Credit Units: 6.

MAN 518 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. Spr (Staff)

MAN 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. Spr (Staff)

MAN 523 Financial Institutions and Markets
An examination of participants, relationships and institutions of the markets for all types of securities. Analysis of financial intermediaries, flow of funds, determinants of level and term structure of interest rates, instruments in money and capital markets, problems and trends is financial markets. Credit units: 3 ECTS Credit Units: 6. Prerequisite: MAN 522. Aut (D. Cansizlar)

MAN 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. Prerequisite: MAN 522. Aut (A. Yüksel)

MAN 525 Financial Economics
This course includes many of the important concepts in financial economics. The focus is on financial markets and the valuation financial claims traded in those markets. In the first part of the course, models of choice under uncertainty, risk aversion, and stochastic dominance are discussed and portfolio optimization problems
are examined. Several equilibrium models of asset markets are presented, including Capital Asset Pricing Model and Arbitrage Pricing Model. Also discussed are mutual fund separation and aggregation problems. In the last part of the course, the financial decisions of firms are considered and the Modigliani-Miller theorems are presented. Credit units: 3 ECTS Credit Units: 6.

MAN 526 International Finance
This course introduces the environment, theory and practice of international finance. The major topics covered are: the foreign exchange market and price elasticities of trade, the Keynesian Model of Income and the trade balance, the Monetary approach to the balance of payments, introduction to capital mobility: The Mundell-Fleming model. In the second part of the course, international monetary system, the European monetary system, financial liberalization and stabilization in LDC’s are covered. Credit units: 3 ECTS Credit Units: 6.

MAN 528 Stochastic Models in Finance
The objective of the course is to introduce the basic ideas and methods of stochastic calculus and its applications in finance. First, topics such as stochastic processes, stochastic differential equations and stochastic control are discussed and their use in financial modeling are illustrated in numerous applications. The models to be studied include optimum consumption and portfolio selection problem, arbitrage pricing model, intertemporal capital asset pricing model, option pricing model, futures pricing model, term structures of interest rates and the capital structure of the firm. The course introduces the recent developments in asset pricing as well as providing the essential methods to understand the theoretical foundation of securities and evaluations under uncertainty. Credit units: 3 ECTS Credit Units: 6. Aut (S. Caner)

MAN 529 Special Topics in Finance
This course is designed to deal with the complex phenomenon of the globalization of economic activity. The approach in this course is that globalization is primarily the outcome of the complex interaction between transnational corporation and nation states within the context of a volatile technological environment. This course looks not only at the general processes of change but also at their specific expression in different places and in different industries, both manufacturing and services. Much use is made of graphical materials and information technology with maps, Internet, World Wide Web, etc. in order to capture in a more accessible manner the far reaching changes which are occurring in the global economy. Credit units: 3 ECTS Credit Units: 6.

MAN 531 Global Perspectives
The objective of this course is to examine some economic and political aspects of globalization. To this end, we will study indicators of globalization, theories explaining the internationalization of economic activities, the role of technological change in globalization, the organizational structure of transnational corporations which are key actors in this process, and problems of adjustment to global shifts. We will study several sectors such as textiles, automobiles, electronics and services including financial services. We will also discuss some political features of globalization, such as the role of nation-states in shaping the world economy, the interaction between nation-states and transnational corporations and the emergence of regional blocs. Credit units: 3 ECTS Credit Units: 6.

MAN 532 Marketing Management
Survey of the marketing concept, consumer behavior, segmentation, marketing research, competitive analysis, and marketing decisions involving products, price, distribution and promotion. 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 (Staff)

MAN 533 Marketing Research
An examination of marketing information needs and resources including the collection and dissemination of primary and secondary data. 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. Credit units: 3 ECTS Credit Units: 6. Prerequisite: MAN 532 and MAN 555.

MAN 534 Marketing Strategy
The objective of this course is to provide students with the conceptual background and analytical tools that are used in solving strategic marketing problems in a contemporary economy. Text and assigned readings furnish the conceptual background for effective analysis of marketing problems; the cases utilize practical application tools for making strategic marketing decisions. Credit units: 3 ECTS Credit Units: 6. Prerequisite: MAN 532. Aut (D. Thompson) Spr (Staff)

MAN 535 Special Topics in Marketing
The purpose of this course is to provide students with detailed understanding about the marketing mix variables, namely, product, price, distribution, and promotion. The course may be designed to take either a specific approach related to one variable (e.g. retailing management as a part of distribution decisions) or an integrated approach. Credit units: 3 ECTS Credit Units: 6. Prerequisite: MAN 532.
MAN 536 International Marketing Management
This course provides the students with an understanding of marketing planning and strategy from international, multinational and global perspectives. The world should be viewed as a marketplace with a resulting need for familiarity with various environmental similarities and differences. These may necessitate adaptation and/or standardization of marketing programs, strategies and plans from nation to nation. A major focus of the course is on strategic marketing management techniques, issues, strategies and problems within an international marketing framework. Credit units: 3 ECTS Credit Units: 6.

MAN 538 Advertising Management
This course deals with the strategic management of communications. Advertising is treated as a major form of communication and the role and nature of other communication and promotion activities are also discussed. The objective of the course is to provide analytical skills useful in strategic planning and evaluation of advertisements. An understanding of the advertising industry and agency/client relationship is also provided with the aid of cases, illustrations, and guest speakers. Credit units: 3 ECTS Credit Units: 6, Prerequisite: MAN 532. Spr (Staff)

MAN 539 Consumer Behavior
This course deals with the understanding of the behavior of people as consumers and the strategic implications of this understanding for marketing managers. Consumer analysis is one of the critical components of marketing analysis in examining the problems and reaching effective decisions. Principles from various social sciences are integrated to analyze the consumer judgement process. Marketing applications of the various concepts are illustrated using cases. Credit units: 3 ECTS Credit Units: 6, Prerequisite: MAN 532. Aut (˙O. Sandıkcı)

MAN 540 Special Topics in Quantitative Methods
Credit units: 3 ECTS Credit Units: 6.

MAN 542 Production and Operations Management
Principles and decision analysis related to the effective utilization of the factors of production in manufacturing and non-manufacturing activities. The design, operation and control of production systems using mathematical, computational and other modern analytical techniques. Credit units: 3 ECTS Credit Units: 6, Spr (Staff)

MAN 543 Manufacturing Strategy
Investigation of manufacturing strategy formulation and decision making. Marketing-manufacturing interface, process profiling, product profiling, focused manufacturing, infrastructure development will be studied. Cases are used to demonstrate the manufacturing strategies applied in private and public sector. Credit units: 3 ECTS Credit Units: 6, Prerequisite: MAN 542.

MAN 544 Procurement and Inventory Systems
Deterministic and probabilistic models and algorithms for single-item single-source inventory systems are covered. Topics such as price increases, product quality, pull control and Kanban systems, JIT methods are discussed. Extension to systems with multi-item and multi-source characteristics. Credit units: 3 ECTS Credit Units: 6, Prerequisite: MAN 542.

MAN 545 Service Operations Management
SOM is designed to develop an understanding of management of service industries. In that respected, the role of services in an economy and the distinctive characteristics of service operations will be discussed. In addition, the strategic service concept, competitive service strategies, the role of information, service delivery systems and management of day to day operations will be studied. Strategies to achieve world-class service will also be addressed. Credit units: 3 ECTS Credit Units: 6, Aut (T. Jefferson)

MAN 546 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.

MAN 547 Project Management
This course addresses 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: 3 ECTS Credit Units: 6. Spr (Staff)

MAN 548 Quality Management
The objective is to cover major analytical techniques and concepts of quality assurance. Topics also include quality assurance programs in service organizations and economic design of quality control systems. Credit units: 3 ECTS Credit Units: 6, Prerequisite: Consent of instructor. Spr (Staff)
MAN 555  Probability and Statistics  
Basic concepts in probability and statistical analysis. Topics include data analysis, Bayes theorem, discrete and continuous distributions, estimation, testing of hypotheses, analysis of variance, and regression analysis.  Credit units: 3 ECTS  Credit Units: 6. Aut (A. Kocabıyıkoğlu)

MAN 557  Decision Science  
An overview of management science/operations research with selected applications from management systems and interdisciplinary areas. Formulation of problems from the private and public sectors using the mathematical modeling of linear programming. Development of the simplex algorithm, duality theory and economic interpretations. Introduction to integer programming, network models, transportation and assignment problems, special-purpose algorithms. Students will have opportunities to formulate and solve models developed from case studies and use various computer programs.  Credit units: 3 ECTS  Credit Units: 6. Aut (E. Erel)

MAN 558  Management Information Systems  
The role of information in organizations and the role of information systems as a formal mechanism for the collection and exchange of data and information are studied. The strategic and economic impact of information systems on management processes are explored. Topics also include the nature and operation of basic hardware and software components, file and database management systems. Students gain extensive exposure to microcomputers and various application programs.  Credit units: 3 ECTS  Credit Units: 6. Aut (Y. Günalay)

MAN 563  Human Resource Management and Strategy  
This course addresses job assignment policies and compensation in private and public organizations. Topics include incentives, rewards in guiding individual actions, career planning, design of job and pay hierarchies, performance measurement.  Credit units: 3 ECTS  Credit Units: 6. Prerequisite: Consent of instructor.

MAN 564  Change Management  
The increasing rate of social, technological, political and economic changes relevant to the world of organizations have increased the salience of transitional states. Whereas some organizations have relatively little difficulty in developing adaptive change processes, others resist or deny the necessity of change or get stuck in the middle of a transition and become stalemated. Then the question; “to change or not to change?” is often raised by the managers. This course is designed to provide the means to enable the manager, and the student of management to develop an understanding of what managing organization change entails and to become able to play a constructive role in leading and contributing to organization-wide change efforts.  Credit units: 3 ECTS  Credit Units: 6. Spr (Staff)

MAN 565  Global Competition and Strategy  
The primary objective of the course is to link competitiveness analysis and strategy formulation the company level, but within the global competitive environment the company is operating. Competitiveness analysis at the company level will be made through an approach that takes into account the company’s immediate competitive environment such as industrial and business infrastructure, governments involvement in economic activities, qualities and availability of work force, as well as the company’s own mastering in the areas of production, marketing, finance, logistics, and technology. Strategy formulation will be based on competitiveness analysis performed through different formal frameworks or models.  Credit units: 3 ECTS  Credit Units: 6.

MAN 566  Organization Development  
Organization Development (OD) is a systematic approach to organizational improvement that applies behavioral science theory and research in order to increase individual and organizational well-being and effectiveness. Its objectives include: (a) Higher quality of worklife, (b) productivity, (c) adaptability and (d) effectiveness. Organization development seeks to change: (a) beliefs, (b) attitudes, (c) values, (d) strategies, (e) structures and (f) practices so that the organization can better adapt to competitive actions, technological advances, and the fast pace of other changes in the environment.  Credit units: 3 ECTS  Credit Units: 6.

MAN 568  Management Skills  
Explosive forces such as globalization, reengineering, empowerment, downsizing, increasing competitiveness, the need for continuous change, the rising expectations of enlightened workers, and the revolution in information technologies are sweeping through the business world and collectively demanding new and radically different management paradigms. The interface between management and other employees is undergoing revolutionary change. Whole new sets of management knowledge, attitudes, and skills are being demanded. This course focuses on the management skills that are critical for the successful management of people in the emerging new business paradigms. Emphasis will be placed not only on understanding the theoretical foundations of the most critical skills, but also on the development on a minimum level of competency in each of them.  Credit units: 3 ECTS  Credit Units: 6.

MAN 570  Special Topics in Business Administration I  
EC trade law and law of the single market. Institutional structure and characteristics of the legal system. The Common Customs Tariff and the Common Commercial Policy. Customs duties and charges having equivalent effect. Quantitative restrictions and measures having equivalent effect. Turkey’s customs union with the EC. Competition law: agreements restrictive of competition, abuse of dominant position, oligopoly, regulation of
mergers, takeovers, and joint ventures, state aid, and recent developments in the EC competition laws. Impact of the Customs Union on Turkish competition law. Heavy emphasis on case studies. Prerequisite: MAN 507. Credit units: 3 ECTS Credit Units: 6, Spr (Staff)

MAN 571 Research Methods in Business
The aim of this course is to give students an understanding of scientific research and equip them with tools for defining managerial problems as researchable questions and seeking answers to them by collecting and analyzing data. The course covers topics such as the scientific method, problem and hypothesis formulation, research strategy and design, measurement, data collection, analysis using SPSS, and reporting. Students are required to work on a research project of their choice and to bring it to conclusion. Class meetings cover lecture, discussion, and student presentations. Credit units: 3 ECTS Credit Units: 6.

MAN 572 European Community Law
EC trade law and law of the single market. Institutional structure and characteristics of the legal system. The Common Customs Tariff and the Common Commercial Policy. Customs duties and charges having equivalent effect. Quantitative restrictions and measures having equivalent effect. Turkey's customs union with the EC. Competition law: agreements restrictive of competition, abuse of dominant position, oligopoly, regulation of mergers, takeovers, and joint ventures, state aid, and recent developments in the EC competition laws. Impact of the Customs Union on Turkish competition law. Heavy emphasis on case studies. Credit units: 3 ECTS Credit Units: 6.

MAN 573 Introduction to E-Commerce
This course provides students with an overview and understanding of how Internet and e-Commerce revolutionize the way economy and commerce works. The so called “New Economy” functions in a different way and speed than the traditional economy and brings its own rules to the society. To provide an understanding of the opportunities and threats these new rules bring to business and economy, the course covers the basics of the infrastructure, business value and future of e-Commerce. Several cases and discussions will be included and professionals from the sector will be invited during the semester. Credit units: 3 ECTS Credit Units: 6.

MAN 576 Organization Design and Change Management
The purpose of the course is to provide participants with the knowledge and skills of how to define, generate, manage and use organization and job design, strategic management and change management theory. The cases facilitate the discussion if organisation and job design and change management in real situations. Credit units: 3 ECTS Credit Units: 6. Aut (N. Acur)

MAN 577 Financial Intermediation
The goal of the course is to provide theoretical and practical understanding of the financial intermediation especially commercial banking. The main topics are: the economic role of financial intermediation in producing and monitoring of borrowers; risks faced by financial intermediary's managers and methods through which these risks are managed; the rationale for regulation. The problem of adverse selection and moral hazard will be introduced in order to understand efficient functioning of the financial intermediaries. Credit units: 3 ECTS Credit Units: 6.

MAN 578 Revenue Management
Revenue management is a pricing and capacity allocation tool which can be used in demand management decisions such as allocating capacity to different market segments, and pricing products across categories and over time. This course aims to introduce students to the tools and techniques of revenue management and its applications in airline and hotel industries, manufacturing, rental services and retail fashion. Credit units: 3 ECTS Credit Units: 6, Prerequisite: MAN 557.

MAN 581 Brand Planning
Brand Planning for New and Existing Products gives a framework for creating compelling brands and sustainable brand equity growth. The course starts, as all marketers should, with the consumer. The course will explore what it takes to create a valued consumer experience and nurture a loyal, mutually-rewarding relationship. Next, the brand's competitiveness in the marketplace is assessed and the brand's sustainable growth in planned. With understanding of market forces and the firm's goals in mind, the course strategizes on competitive positioning, resource deployment and intensity of actions towards competitors. Based on the strategic brand plan, the course then focuses on the actual building, managing and measuring of a brand equity-driven business. Brand Marketing theories, models and tools are applied to a multitude of traditional and newly emerging brands primarily utilizing case studies as well as a team-based brand building project. Credit units: 3 ECTS Credit Units: 6.

MAN 582 Group Processes and Team Dynamics
The student-centered course is designed to introduce students to the structures and processes that affect team performance as well as some of the common pitfalls associated with working in teams. Topics include team building, team development, problem solving, communication, decision-making in teams and designing effective teams. 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, Spr (Staff)
MAN 583  Financial Modeling and Applications
The purpose of this course is to enable students to use computers and selected software when solving business financial problems. Spreadsheet and simulation programs are the primary tools of the course. Students will work on exercises that cover various aspects of corporate finance and investments and prepare a term project on related topic. Credit units: 3 ECTS Credit Units: 6, Prerequisite: MAN 522. Spr (Staff)

MAN 586  Real Estate Finance
This course deals with the central issues in real estate finance and investment. Typical policies and procedures used in financing of residential, industrial, and commercial properties are discussed. Topics include methods of measuring rates of return, feasibility and appraisal processes, risk analyses, equity and debt financing vehicles. Real estate investment trusts and mortgage backed securities are also covered. Credit units: 3 ECTS Credit Units: 6, Prerequisite: MAN 522.

MAN 593  Research Paper I
Credit units: None ECTS Credit Units: 3. Aut (E. Berk) Spr (Staff)

MAN 594  Research Paper II
Credit units: None ECTS Credit Units: 3. Aut (E. Berk) Spr (Staff)

MAN 598  MBA Project III
Credit units: 3 ECTS Credit Units: 6.

MAN 601  Research Methodology I
The objectives of the course are to (1) familiarize students with different modeling approaches through a selected set of articles, (2) provide an opportunity to each student to work individually on a research topic that might eventually lead to a dissertation topic, (3) improve writing skills and styles essential for publication, and (4) develop a scientific personality to be able to analyze, synthesize, and criticize the writings of others. Report writing assignments are frequent and, for most students, demanding. Credit units: 4 ECTS Credit Units: 7.

MAN 602  Research Methodology II
This course concentrates on certain quantitative and qualitative research methods that are essential for conducting the research projects formulated during Research Methodology I. In contrast to Research Methodology I, although a continuation of it, Research Methodology II is actively research oriented and each student is required to write a dissertation research. Development of writing skills and styles is essential. Credit units: 4 ECTS Credit Units: 7.

MAN 603  Computerized Research Methods
Advanced research requires innovative uses of the existing quantitative and research tools or development of new ones. This implies sophisticated ways of use of computers. The objective of this course is to familiarize the students with certain computer programming approaches to handle different data management problems, switching computer working environments, adjusting new models to existing computer codes or vice versa. Credit units: 3 ECTS Credit Units: 6, Prerequisite: MAN 602 or consent of the instructor.

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: 6.

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 postpositivist 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: 6. Aut (G. Ger)

MAN 621  Advanced Corporate Finance
The objective of this course is to discuss issues and models concerning corporate finance and the role of banks. Topics include the theory of the firm, capital structure, separation of ownership and control, causes and
consequences of particular structures of corporate ownership, performance and ownership structure, analysis of the principal-agent problem, agency costs and capital structures, the role of debts, models of debt, banks, design of bank loans, bankruptcy, post-bankruptcy and management turnover. Credit units: 3 ECTS Credit Units: 6.

MAN 626 Market Microstructure
The objective of this course is to acquaint students with the research in the area of market microstructure. The focus is mainly on theoretical work, hence it will concentrate on analyzing the major models and their applications. Interesting research problems in financial markets are introduced. The major models include inventory models, information-based models and strategic microstructure models with informed and uninformed traders. In addition, the empirical application of these models are discussed. Credit units: 3 ECTS Credit Units: 6.

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 632 Globalization Consumption and Development
The course examines the interface and interplay of marketing and its local and global environment-society, politics, ethics, culture, economy, technology, nature. The emphasis is on the role and consequences of marketing systems in different types of economies and societies, especially in marketingizing economies or societies in transition in the global system. Role of marketing in development, sustainability, quality of life, and well-being is considered. Marketing is examined in the context of the contemporary issues and conditions of global media and culture, globalism and localism, consumption, poverty, minorities, ethnic groups, and consumer movements and organizations. Green and socially responsible marketing and ethical, legal, and ecological dimensions of marketing are also discussed. The course is interactive and involves critical discussion of the readings during both lectures and student presentations. Student search for possible dissertation topics and develop a preliminary dissertation proposal. Credit units: 3 ECTS Credit Units: 6.

MAN 633 Advanced Marketing
This course aims to expose the students to the theoretical issues in field of marketing and the different approaches to the conceptualization and study of markets and marketing. Specific topics may vary from to year, depending on the recent developments in the literature. Credit units: 3 ECTS Credit Units: 6.

MAN 639 Special Topics in Marketing
Credit units: 3 ECTS Credit Units: 6.

MAN 644 Inventory Theory
This course studies inventory systems and focuses on the traditional inventory theoretical models in order to provide a solid foundation for students to better understand and appreciate the existing body of research and be able to draw upon earlier works in the scholarly endeavors. This course is conducted partly in a lecture format and partly through class discussion of seminal articles. Topics include deterministic and stochastic models, selection of optimal inventory policies for single item dynamic inventory systems with concave and convex cost functions, known and uncertain requirements, sensitivity of single location models to lead time variability and delivery or yield uncertainty under given classes of control policies. Single location inventory systems with perishable goods, heuristic algorithms and myopic policies for multi-item dynamic inventory systems and multi-echelon models. Credit units: 3 ECTS Credit Units: 6. Spr (Staff)

MAN 651 Decision Analysis
Decision analysis aims to provide structure and guidance in thinking systematically about complex problems. Main purpose is to improve the quality of the resulting decisions. Primary questions of interest are (1) how do individuals and groups make decisions; (2) how good are these decisions; and (3) is there room for improvement, and if so, how can this improvement be achieved. Accordingly, decision analysis may be viewed as consisting of a framework and a tool kit for dealing with these questions. Main topics to be focused in this course include structuring of decisions, modeling of uncertainty and preferences, heuristics and biases in decision making, deficiencies in human judgment, and the role of feedback. Credit units: 3 ECTS Credit Units: 6.

MAN 655 Advanced Statistics
The purpose of this course is to provide the principles and methods of a number techniques for the analysis of multivariate data. The emphasis will be on practical aspects of data analysis, specifically: the ability to relate particular analysis techniques to research problems and designs (preferably connected to research ideas or problems intended for the doctoral dissertation); conducting appropriate analyses using SPSS; and interpreting and validating the results of these analyses. Credit units: 3 ECTS Credit Units: 6.
MAN 656  Advanced Multivariate Statistics
This course is designed to provide students with a working knowledge of the basic concepts underlying the most important multivariate techniques, with an overview of actual applications in various fields, and with experience in actually using such techniques on a problem of their own choosing. The course addresses both the underlying mathematics and problems of applications. As such, a reasonable level of competence in both statistics and mathematics is needed. Credit units: 3 ECTS Credit Units: 6.

MAN 661  Organization Theory
This course treats organization theory as a part of sociological theory. Although there are numerous topics in the general area of organizations, organizational theory can be defined as the study of institutionalized social practices. Within this frame of reference, the course introduces different theories and concerns in the field of organizational theory by focusing on their metatheoretical presuppositions, that is, their epistemologies, ontologies, theories of action and theories of explanation. Credit units: 3 ECTS Credit Units: 6.

MAN 662  Organizational Behavior
This course is designed for students in the doctoral program of the Department of Management as an introduction to the field. The purpose of the course is to provide a survey of major topics in micro-organizational behavior. The topics include motivation, leadership, interpersonal influence, group dynamics and organizational culture. The course also involves a critical discussion of the strengths and weaknesses of theoretical and empirical research on the topics. Credit units: 3 ECTS Credit Units: 6.

MAN 681  Readings in Operations Management I
This is a doctoral level reading/seminar course which intends to familiarize students with current research in Operations Management, in terms of models and methodologies, through guided reading and discussion of recent works. Each selected work will provide both a basis for introducing the seminal works in the area and/or employed methodologies and an opportunity for the participants to generate new ideas and research problems. The objective of the course is to supplement the transfer of codified knowledge in a classroom setting with exposure to the mindset of scholarly research. The rigorous discussion and exchange of ideas are intended to help students formulate their own research agenda. Credit units: 3 ECTS Credit Units: 4. Spr (Staff)

MAN 682  Readings in Operations Management II
Continuation of MAN 681. Credit units: 3 ECTS Credit Units: 4, Prerequisite: MAN 681.

MAN 683  Directed Readings in Management I
This is doctoral level reading/seminar course which intends to familiarize students with current research in various fields of management, in terms of models and methodologies, through guided reading and discussion of recent works. Each selected work will provide both a basis for introducing the seminal works in the area and/or employed methodologies and an opportunity for the participants to generate new ideas and research problems. The objective of the course is to supplement the transfer of codified knowledge in a classroom setting with exposure to the mindset of scholarly research. The rigorous discussion and exchange of ideas are intended to help students formulate their own research agenda. Credit units: 3 ECTS Credit Units: 6.

MAN 684  Directed Readings in Management II
Continuation of MAN 683. Credit units: 3 ECTS Credit Units: 6. Spr (Staff)

MAN 699  Ph.D. Dissertation
Credit units: None ECTS Credit Units: . Aut (E. Berk) Spr (Staff)
FACULTY OF ECONOMICS, ADMINISTRATIVE AND SOCIAL SCIENCES

Metin Heper, Ph.D., Dean
Hatice Pınar Bilgin, Ph.D., Asst. Dean
Tarık Kara, Ph.D., Asst. Dean

The Faculty of Economics, Administrative and Social Sciences comprises four academic departments:

- Economics
- History
- International Relations
- Political Science
- 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.

ACADEMIC STAFF

İlhan Akipek, Adjunct Senior Lecturer
Nedim Alemdar, Assistant Professor
James Alexander, Assistant Professor
Neil Arnwine, Instructor
Ph.D., Economics, Rice University, Houston, Texas, 1996. Macroeconomics, monetary economics and mathematical methods.
Ersel Aydınlı, Assistant Professor (on leave)
İlker Aytürk, Assistant Professor
Hakan Berument, Associate Professor
Hatice Pınar Bilgin, Assistant Professor
Berrak Burçak, Instructor
Gülriz Büken, Instructor
Ph.D., English Language and Literature, Hacettepe University, 1974.
Dilek Cindoğlu, Assistant Professor
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Ph.D., History, George Washington University, 1990. Modern history, Ottoman history, Russian history, women’s history.

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Ph.D., Political Science, Queen’s University, 1996. Comparative politics.

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Ph.D., Sociology, Hacettepe University, 1980. Cultural change, worker culture, political anthropology.

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M.S., Psychology, Middle East Technical University, 1985. Psychology.

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

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Ph.D., Sociology, Middle East Technical University, 2005. Sociology.

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Ömer Faruk Gençkaya, Assistant Professor
Ph.D., Political Science, Boğaziçi University, 1990. Comparative politics, Turkish politics.

Nejdet Gök, Instructor
Ph.D., History, Marmara University, 1997. Ottoman Turkish and paleography.

Onur Gökçe, Lecturer
B.S., Faculty of Political Science, Ankara University, 1962. Turkish foreign policy diplomatic language.

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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.

Ferhad Hüseyin, Assistant Professor
Ph.D., Mathematics, Moscow State University, 1974. Mathematical economics, game theory.
Halil İnalcık, Professor
Ph.D., History, Ankara University, 1942. Ottoman history.

Yüksel İlhan, Senior Lecturer

Başak İnce, Instructor

Pınar İpek, Instructor

Mehmet Kalpakli, 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.

Jack Kangas, Visiting Senior Lecturer
Ph.D., Political Science, Stanford University. Strategic studies.

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

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Ph.D., Law, University of Lausanne, 1970. Strategic studies, foreign policy, public international law.

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

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Ph.D., Bilkent University, 1996. Nuclear weapons, nuclear nonproliferation, arms control, disarmament.

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Ph.D., Mathematics, Boğaziçi University, 1980. Mathematical economics.

Ayça Kurtoğlu, Instructor
Ph.D., Sociology, Middle East Technical University, 1998. Sociology.

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

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Ph.D., Psychology, University of Alberta, 2004. Memory and cognition, autobiographical memory, judgment and decision making and estimation strategies.

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

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Kıvılcım Metin, Associate Professor

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Ph.D., Economics, University of Maryland, 1997. Macroeconomics, monetary economics, institutional economics.

Tarık Oğuzlu, Instructor (on leave)
Ph.D., International Relations, Bilkent University, 2003. Cyprus, Turkish foreign policy, Turkomans in Iraq.

˙Ilber Ortaylı, Visiting Professor (on leave)
Ph.D., Political Science, University of Ankara, 1974. Ottoman Social History Russo-Turkish relations.

Çağla Ökten, Assistant Professor

Ergun Özbudun, Professor

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

Emre Özgen, Assistant Professor
Ph.D., Psychology, University of Surrey, 2000. Cognitive psychology, color perception, perceptual learning, vision research.

Umit Özale, Assistant Professor

Aida Paskevičiūte, Assistant Professor
Ph.D., Political Science, University of Binghamton, SUNY, 2005. Comparative Politics, American Politics.

Süheyla Pınar, Instructor
M.S., Sociology, Middle East Technical University, 1986. Sociology.

Sergei Podbolotov, Instructor

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

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Ph.D., Middle Eastern History, Melbourne University, 1980. Middle Eastern studies.

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Ph.D., Economics, Ohio State University, 1992. General equilibrium analysis, international economics.
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Duygu Sezer, Professor

Hootan Shambayati, Assistant Professor
Ph.D., Political Science, University of Utah, 1997. Comparative politics, international relations.

Stanford Shaw, Professor

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

Ashoke Kumar Sinha, Assistant Professor
Ph.D., Erasmus University, 1997. Econometrics, statistics and probability.

Norman Stone, Professor (on leave)

Zerrin Tandoğan, Instructor

Fatma Taşkin, Associate Professor

Ali Tekin, Assistant Professor
Ph.D., International Relations, University of Pittsburgh, 1997. International relations, global political economy, European union, Turkish political economy.

Ann-Marie Thornton, Instructor

David Thornton, Assistant Professor

Süびidey Togan, Professor

Gülgün Tuna, Assistant Professor (on leave)
Ph.D., International Relations, Florida State University, 1988. Global ecological problems, North-South relations, international political economy.

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Ph.D., City and Regional Planning, Middle East Technical University, 1998. Human geography, industrial geography.

Okan Ücher, Instructor

Hasan Unal, Assistant Professor
Ph.D., University of Manchester, 1992. Modern history, international history, the Balkans.

Paul Williams, Assistant Professor

Lerna Yanık, Assistant Professor
Ph.D., Government, Georgetown University, 2002. Turkish foreign policy in Eurasia, culture and international relations.

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Taner Yiğit, Assistant Professor  

Osman Zaim, Associate Professor (on leave)  

PART-TIME ACADEMIC STAFF

Ömer Altay, Graduate Diploma, University of Essex, 1974.  
Recep Yüksel Altuğ, B.Sc., Ankara University, 1968.

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


Hakan Ercan, Ph.D., Economics, University of Iowa, 1994.

Turhan Fırat, Faculty of Political Science, Ankara University, 1961.


Ülkem Özge Sevgilier, M.A., Political Science, Bilkent University, 1998.
Department of Economics

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. Students may select programs that emphasize the relation of technology to economics by concentrating their free electives on science and engineering, or they may select programs which concentrate more heavily on economics, other social sciences and humanities.

The program aims to give the students a solid grounding in modern economic theory, to provide a basic descriptive knowledge of the Turkish and world economy, and to develop students' quantitative research skills and independent and critical thinking abilities.

Undergraduate Curriculum

First Year

Autumn Semester

<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits / ECTS</th>
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<tr>
<td>ECON 101</td>
<td>Introduction to Economics I</td>
<td>3 / 6</td>
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<tr>
<td>MATH 105</td>
<td>Introduction to Calculus I</td>
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<tr>
<td>GE 100</td>
<td>Orientation</td>
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<td>ENG 101</td>
<td>English and Composition I</td>
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<td>SOC 101</td>
<td>Introduction to Sociology</td>
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<td>TURK 101</td>
<td>Turkish 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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<td>ECON 102</td>
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<td>ENG 102</td>
<td>English and Composition II</td>
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<td>PSYC 102</td>
<td>Introduction to Social Psychology</td>
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<td>TURK 102</td>
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<td>HCIV 102</td>
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Second Year

Autumn Semester

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<td>ECON 201</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>CS 121</td>
<td>Introduction to Computing for Social Sciences</td>
<td>3 / 6</td>
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<tr>
<td>MAN 213</td>
<td>Principles of Financial Accounting</td>
<td>4 / 6</td>
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<tr>
<td>HIST 201</td>
<td>History of Turkish Republic I</td>
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Spring Semester

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<tr>
<td>MATH 227</td>
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<td>CS 122</td>
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<td>HIST 202</td>
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<td>ECON 302</td>
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<td>ECON 351</td>
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<td>MAN 321</td>
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<td>ECON 211</td>
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<td>ECON 321</td>
<td>Financial Institutions and Markets</td>
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<td>ECON 323</td>
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<td>ECON 352</td>
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<td>ECON 407</td>
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<td>ECON 409</td>
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<td>ECON 411</td>
<td>History of Economic Thought I</td>
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<td>LAW 491</td>
<td>Selected Topics in Turkish Law I</td>
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<td>ECON 412</td>
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### ELECTIVE COURSES

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<tr>
<td>ECON 211</td>
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<td>ECON 321</td>
<td>Financial Institutions and Markets</td>
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<td>ECON 323</td>
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<td>ECON 415</td>
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<td>ECON 417</td>
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<td>ECON 421</td>
<td>General Equilibrium</td>
<td>3 / 6</td>
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<td>ECON 422</td>
<td>Time Series</td>
<td>3 / 6</td>
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<tr>
<td>ECON 426</td>
<td>Applied Economic Analysis</td>
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<tr>
<td>ECON 433</td>
<td>Industrial Economics I</td>
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<td>ECON 434</td>
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<tr>
<td>ECON 435</td>
<td>International Political Economy</td>
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<td>ECON 437</td>
<td>Positive Political Economy</td>
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<td>ECON 438</td>
<td>Economics of Competition</td>
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<td>ECON 439</td>
<td>Game Theory I</td>
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<tr>
<td>ECON 440</td>
<td>Game Theory II</td>
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<td>ECON 443</td>
<td>Advanced Economic Theory</td>
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<td>ECON 453</td>
<td>Theories of Economic Growth and Development I</td>
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<td>ECON 454</td>
<td>Theories of Economic Growth and Development II</td>
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<tr>
<td>ECON 455</td>
<td>Institutions and Development</td>
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<tr>
<td>ECON 458</td>
<td>Labor Market Economics</td>
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</table>

### Credits / ECTS Credits

- **Spring Semester**: Credits / ECTS Credits
- **Autumn Semester**: Credits / ECTS Credits
- **Third Year**: Credits / ECTS Credits
- **Fourth Year**: Credits / ECTS Credits
ELECTIVE REQUIREMENTS

Elective Requirement: Students need to take a total of eleven elective courses, at least four of which must be chosen from the list of economics courses announced by the Department at the beginning of each academic year.

All other pertinent information can further be obtained from the Economics Department Web site at: http://www.bilkent.edu.tr/~economics from the “Academic Information” menu. All students are strongly advised that it is their responsibility to follow the announcements at that site.

GRADUATE PROGRAMS IN ECONOMICS

Graduate programs in economics aim to train students in such a way 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, or 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 more toward preparing 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 some of 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 Microeconomic Theory (ECON 503-504), Macroeconomic Theory (ECON 505-506), Mathematics for Economists (ECON 515-516), Probability and Statistics (ECON 509-510) 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

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<thead>
<tr>
<th>Autumn Semester</th>
<th>Credits / ECTS Credits</th>
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<tbody>
<tr>
<td>ECON 503</td>
<td>Microeconomic Theory I</td>
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<tr>
<td>ECON 505</td>
<td>Macroeconomic Theory I</td>
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<tr>
<td>ECON 509</td>
<td>Probability and Statistics I</td>
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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 coursework 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 Microeconomic Theory (ECON 503-504), Macroeconomic Theory (ECON 505-506), Mathematics for Economists (ECON 515-516), Probability and Statistics (ECON 509-510) 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

FIRST YEAR

<table>
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<tr>
<th>Autumn Semester</th>
<th>Credits / ECTS Credits</th>
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<tr>
<td>ECON 699</td>
<td>Ph.D. Dissertation</td>
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<td>Graduate Electives(3)</td>
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<tr>
<th>Spring Semester</th>
<th>Credits / ECTS Credits</th>
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<tbody>
<tr>
<td>ECON 699</td>
<td>Ph.D. Dissertation</td>
</tr>
<tr>
<td>Graduate Electives(3)</td>
<td>9 / 18</td>
</tr>
</tbody>
</table>
SECOND YEAR*

Autumn Semester  Credits / ECTS Credits
ECON 699 Ph.D. Dissertation  - / -
Graduate Elective  3 / 6

Spring Semester  Credits / ECTS Credits
ECON 699 Ph.D. Dissertation  - / -
Graduate Elective  3 / 6

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.

GRADUATE ELECTIVES*

Autumn Semester  Credits / ECTS Credits
ECON 511 Econometrics I  3 / 6
ECON 513 Game Theory I  3 / 6
ECON 517 Mathematical Economics I  3 / 6
ECON 521 International Economics I  3 / 6
ECON 531 Economic History I  3 / 6
ECON 551 Studies in Growth and General Equilibrium Modeling I  3 / 6
ECON 561 Topics in Microeconomic Theory I  3 / 6
ECON 571 Fiscal Economics I  3 / 6
ECON 575 Monetary Economics I  3 / 6

Spring Semester  Credits / ECTS Credits
ECON 512 Econometrics II  3 / 6
ECON 514 Game Theory II  3 / 6
ECON 518 Mathematical Economics II  3 / 6
ECON 522 International Economics II  3 / 6
ECON 532 Economic History II  3 / 6
ECON 536 Methodology and History of Economics  3 / 6
ECON 552 Studies in Growth and General Equilibrium Modeling II  3 / 6
ECON 562 Topics in Microeconomic Theory II  3 / 6
ECON 564 Topics in Macroeconomic Theory II  3 / 6
ECON 572 Fiscal Economics II  3 / 6
ECON 576 Monetary Economics II  3 / 6

*Some of these courses may be offered only every other year.

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 (N. Arnwine, H. Berument, K. Metin, Ç. Ökten, E. Özbölük, Ü. Özile, M. Polat, S. Sayek Boğ, O. Üçer) Spr (Ç. Ökten, O. Üçer)

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. Prerequisite: ECON 101. Aut (N. Alemdar, R. Gürkaynak, M. Polat, O. Üçer) Spr (N. Arnwine, Ü. Özile, M. Polat, O. Üçer, A. E. Yeldan)
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 (R. Y. Altuğ) Spr (R. Y. Altuğ, A. Ganioğlu, M. Polat)

ECON 105 Principles of Economics 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: 6. Aut (A. Orhon)

ECON 106 Principles of Economics 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: 6. Spr (N. Ö. Coşkun)

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:.

ECON 201 Economic Theory I
Basic theory of consumer behavior, production and costs, partial equilibrium, analysis of pricing in competitive and monopolistic markets, general equilibrium, welfare and capital. Credit units: 3 ECTS Credit Units: 6, Prerequisite: ECON 101. Aut (K. Hasker, S. Sayan) Spr (K. Hasker)

ECON 202 Economic Theory II
Theory of national income determination, static and dynamic; components of aggregate demand; analysis of aggregate supply. Theory of growth and inflation. Credit units: 3 ECTS Credit Units: 6, Prerequisite: ECON 102. Aut (N. Alemdar) Spr (B. Neyaptı, S. Sayan)

ECON 211 Economic History
A survey of world economic history designed to introduce students to the subject matter and methodology. Various aspects of European and Turkish experiences are emphasized. Credit units: 3 ECTS Credit Units: 6.

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. Aut (D. Önal) Spr (İ. Apaydın, E. Celasun, F. Kadıoğlu, S. F. Mahmud, B. Neyaptı)

ECON 225 Mathematics for Economists
Multivariate calculus, constraint optimization, Hessians, implicit function theorem, difference equations. Credit units: 3 ECTS Credit Units: 6, Prerequisite: MATH 106. Aut (H. Ercan, F. Hüseyin, H. Ç. Şığam) Spr (F. Hüseyin)

ECON 299 Training in Economics II
The course aims at giving a chance to second-year students 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:.

ECON 301 Econometrics I
Introduction of linear multiple regression model, inference, hypothesis testing; and maximum-likehood 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 222 and ECON 101 and ECON 102. Aut (K. Metin, A. K. Sinha, F. Taşkin)
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 (S. F. Mahmud, F. Taşkin)

ECON 308 Forecasting
Quantitative and statistical techniques for forecasting and decision sciences. Credit units: 3 ECTS Credit Units: 6.

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 201. Aut (Staff) Spr (Staff)

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 201; ECON 202. Spr (H. Berument, K. Metin)

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. 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; ECON 202. Aut (S. Togan, A. E. Yeldan)

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 201. Spr (S. Sayek Böke, 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 201. Aut (S. F. Mahmud, Ç.Ökten)

ECON 352 Fiscal Economics II
Continuation of the course ECON 351 with particular attention paid to the fiscal aspects of Macroeconomic Theory. Local governments and international issues such as tax harmonization. Credit units: 3 ECTS Credit Units: 6, Prerequisite: ECON 202.

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 epistomology; critical thinking on the economic rationale. Credit units: 3 ECTS Credit Units: .

ECON 399 Training in Economics III
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: .

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. Spr (V. Kural)

ECON 406 Issues in Macro Economics
This course is offered from the New York office of Bilkent via satellite connection. It 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. Aut (Staff)
ECON 407 Economics of Crises
The course aims to acquaint the students with the economics of crises. It will review the recent developments in economic theory and the evidence from the crises in Asia, Brazil, Argentina and Turkey, emphasizing their differences from previous crises. It will discuss the importance of capital flows and the approaches to reforming the international financial system and will cover various methods of coping with, and the measures to forestall future crises. Credit units: 3 ECTS Credit Units: 6. Spr (H. Çolpan)

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 102.

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 102. Spr (F. Emili)

ECON 411 History of Economic Thought I
A selective historical survey of the development of economic analysis giving varying degrees of attention to the contributions of Aristotle, Aquinas, Mun, Hume, Smith, Malthus, Ricardo, Marx, Mill, Walras, Marshall, Keynes and Schumpeter. Credit units: 3 ECTS Credit Units: 6, Prerequisite: ECON 201 and ECON 202. Aut (A. Ertuğrul, M. Kara)

ECON 412 History of Economic Thought II
Continuation of the History of Thought I, with emphasis on post-Neoclassical economics, the rise and fall of Keynesianism, the new classical macroeconomics, rational expectations and post-Keynesianism. Credit units: 3 ECTS Credit Units: 6, Prerequisite: ECON 201 and ECON 202. Spr (A. Ertuğrul, M. Kara)

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. Spr (S. Koray)

ECON 417 Environmental Economics I
Analysis of environmental problems, cost-benefit analysis, techniques, costs of abatement. Credit units: 3 ECTS Credit Units: 6, Prerequisite: ECON 101.

ECON 421 General Equilibrium
Theory of general competitive equilibrium from modern mathematical points of view. Topics include existence of equilibrium; fixed point theorems; computational techniques; and empirical general equilibrium models. Credit units: 3 ECTS Credit Units: 6, Prerequisite: ECON 201 and ECON 202; ECON 201. Aut (S. Sayan)

ECON 423 Time Series Analysis in Economics and Finance I
The course introduces students to the fundamentals of classical time series analysis in economics and finance. The topics covered in the course include classical issues of time series models, stationarity, ARIMA, Random Walk, Cointegration, VAR and ECM analysis, Causality, ARCH and GARCH models. Credit units: 3 ECTS Credit Units: 6, Prerequisite: ECON 101. Aut (J. Özişle)

ECON 424 Time Series Analysis in Economics and Finance II
This course is a continuation of Econ 423, the aim of the course is to introduce students to contemporary time series analysis with a special emphasis on high-frequency data applications. The topics covered are Linear Filters, Optimum Linear Filters, Wavelet transformation, Artificial Neural Networks, Multifractality and Scaling Analysis, Stochastic Volatility, Markov Chains, and Extreme Value Theory. Credit units: 3 ECTS Credit Units: 6.

ECON 426 Applied Economic Analysis
Develop skills in the empirical analysis of economic theory, models and data. Emphasis will be placed on applications of finance theory and economics of privatization to the Turkish economy. Topics may vary with the instructor. Credit units: 3 ECTS Credit Units: 6, Prerequisite: ECON 201 or ECON 202 and ECON 301. Spr (O. Zaim)

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.

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. Spr (Ç. Öktén)

ECON 434 Industrial Economics II
Continuation of ECON 433. Credit units: 3 ECTS Credit Units: 6, Prerequisite: ECON 202 and ECON 433; ECON 202.

ECON 435 International Political Economy
Major international institutions and agreements such as the International Monetary Fund, the World Bank Group, The General Agreement on Tariffs and Trade, the Commodity Agreements, the Organization for Economic Cooperation and Development, European Union and the European Free Trade Association. These institutions will be discussed with emphasis on their origin, organization, functions and operations, policies and the role they play on the world economic order. Credit units: 3 ECTS Credit Units: 6, Prerequisite: ECON 331 and ECON 332.

ECON 437 Positive Political Economy
This course is a survey of current economic development models with special emphasis on recent developments in the global economy, the changing nature of work such as female labor force participation, flexible labor systems, employment, and industrial relations. Credit units: 3 ECTS Credit Units: 6, Prerequisite: ECON 201 and ECON 202.

ECON 438 Economics of Competition
This course explores the economic rationale for, and consequences of competition policies, antitrust laws, antidumping actions, countervailing duty actions, safeguard measures. In addition to economic analysis landmark cases will be studied. Credit units: 3 ECTS Credit Units: 6, Prerequisite: ECON 331.

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 201. Aut (T. Kara)

ECON 440 Game Theory II
Continuation of ECON 439 with emphasis on cooperative game theory. Credit units: 3 ECTS Credit Units: 6. Spr (T. Kara)

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.

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. Aut (A. E. Yeşildan)

ECON 454 Theories of Economic Growth and Development II
Modern theories of endogenous growth; convex growth; models based on R and D spillovers and other sources of externalities. Degree of openness and growth. Alternative theories of growth and development: neo-Keynesian growth and structuralist macroeconomics. Modern theories of the real business cycle literature. Credit units: 3 ECTS Credit Units: 6, Prerequisite: MAN 201 and ECON 202; ECON 201 and ECON 202. Spr (A. E. Yeşildan)

ECON 455 Institutions and Development
Role of history and culture in the evolution of institutions; fiscal structures, fiscal decentralization; financial institutions bank regulation and supervision; international financial organizations, NGD's and diffusion of institutional structures via globalization. New development policy and structural adjustment reforms. Credit units: 3 ECTS Credit Units: 6, Prerequisite: ECON 202 and ECON 222. Aut (B. Neyapı)

ECON 458 Labor Market Economics
The economics of the determination of earnings and the allocation of labor. The theory of labor supply and labor demand will be developed, and then applied to questions of income distribution, unions, government intervention in the labor market, and discrimination. If time allows, the relation between unemployment and inflation will be discussed. Credit units: 3 ECTS Credit Units: 6, Prerequisite: ECON 201 and ECON 202.

ECON 471 Economics of Transition
The course covers overall global processes of transition from command systems to market systems. The policy debates and theoretical contributions surrounding the implementation of price reform and the design of new
institutions are introduced. The changed role of the state and the birth of the new entrepreneurial class are investigated within the realm of the globalized world economy. The post-soviet countries and their experiences on policy reform are contrasted. Credit units: 3 ECTS Credit Units: 6. Aut (S. Sayek Böke)

GRADUATE COURSES

ECON 501 Economics I
A course designed for MBA students of the Faculty of Business Administration. The fundamentals of micro- and macroeconomics. Theory of the firm, demand theory, and market structures are among the micro topics. Macro subjects include national income, theory of income determination, money and banking, monetary policy, and international trade. Credit units: 3 ECTS Credit Units: 6. Aut (L. Akdeniz)

ECON 502 Economics II
A course designed for MBA students of the Faculty of Business Administration. The fundamentals of micro- and macroeconomics. Theory of the firm, demand theory, and market structures are among the micro topics. Macro subjects include national income, theory of income determination, money and banking, monetary policy, and international trade. Credit units: 3 ECTS Credit Units: 6. Spr (Sözyıldırım)

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, Prerequisite: ECON 503. Spr (K. Hasker)

ECON 505 Macroeconomic Theory I
Macroeconomic analysis of general equilibrium. Financial markets and the money supply process. Models of asset demand and the channels of transmission of monetary and fiscal policy. Determination of aggregate output, employment, and prices. Keynes and alternate theories, the Phillips Curve. Inflation in the short and long run. 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, Prerequisite: ECON 505. Spr (H. Ç. Sağlam)

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 (R. Y. Altuğ)

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 (R. Y. Altuğ)

ECON 509 Probability and Statistics I

ECON 510 Probability and Statistics II
Statistical inference. Point estimation, method of moments and maximum likelihood. Asymptotic theory, modes of convergence and central limit theorems. The linear regression model. Credit units: 3 ECTS Credit Units: 6, Prerequisite: ECON 509. Spr (H. Berument)

ECON 511 Econometrics I
Theory and economic applications of the linear multiple regression model. Identification and structural estimation in simultaneous equation models. Credit units: 3 ECTS Credit Units: 6.

ECON 512 Econometrics II
Theory and applications of time series models. Unit roots and cointegration. Generalized method of moments estimation of rational expectation macro models. Credit units: 3 ECTS Credit Units: 6, Prerequisite: ECON 511. Spr (T. Yübi)
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. Spr (S. Koray)

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 (F. Hüseyin)

ECON 517  Mathematical Economics I
Mathematical theory of general economic equilibrium. Credit units: 3 ECTS Credit Units: 6, Prerequisite: ECON 516. Aut (S. Koray)

ECON 518  Mathematical Economics II
Dynamic aspects of equilibrium models. Game theory and the theory of industrial organization. Credit units: 3 ECTS Credit Units: 6, Prerequisite: ECON 517.

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 521.

ECON 531  Economic History I
A survey of world economic history designed to introduce the students to the subject matter and methodology of economic history. Credit units: 3 ECTS Credit Units: 6.

ECON 532  Economic History II
Continuation of ECON 531. Credit units: 3 ECTS Credit Units: 6, Prerequisite: ECON 531.

ECON 536  Methodology and History of Economics
A selective historical survey of the developments of economic analysis giving varying degrees of attention to the contributions of Hume, Smith, Ricardo, Marx, Mill, Walras, Marshall, Keynes and Schumpeter. Credit units: 3 ECTS Credit Units: 6.

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. Aut (S. Sayan)

ECON 552  Studies in Growth and General Equilibrium Modeling II
Continuation of ECON 551. This part of the course extends over multi-sector properties of the general equilibrium system. The Input-Output Methodology and Social Accounting Matrices are introduced and programming techniques are discussed in a multi-sector, multi-agent optimizing framework. The intersectoral price system is studied with applications of applied general equilibrium modeling of trade instruments, measures of nominal versus effective rates of protection, microeconomic efficiency, and decomposition of the sources of growth and structural change. Credit units: 3 ECTS Credit Units: 6, Spr (S. Sayan)

ECON 561  Topics in Microeconomic 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, Prerequisite: and the consent of the instructor.

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. Prerequisite: and consent of the instructor.

ECON 564  Topics in Macroeconomic Theory II
Continuation of ECON 563. Credit units: 3 ECTS Credit Units: 6. Prerequisite: ECON 563. Spr (S. Sayek Böke)

ECON 571  Fiscal Economics I
First and second best fiscal theory (income distribution, public goods, externalities; deadweight burden, Ramsey Problem). Incidence models. Economic response to taxation. Credit units: 3 ECTS Credit Units: 6. Prerequisite: ECON 504.

ECON 572  Fiscal Economics II
Quantitative analysis of economic effects of fiscal instruments and fiscal changes such as negative income tax. Corporate income tax, integration, general fiscal incidence, expenditure taxation. Credit units: 3 ECTS Credit Units: 6. Prerequisite: ECON 571.

ECON 575  Monetary Economics I
The analysis of the empirical methods, such as optimal control theory and vector autoregression that widely used in monetary models and some basic models that explore the relationship between output, money and interest rates are studied. The role of exchange rates within the course of monetary policymaking is also analyzed in details. Credit units: 3 ECTS Credit Units: 6. Aut (R. Gürkaynak)

ECON 576  Monetary Economics II
This course is designed to explore the short-run monetary transmission mechanism, mainly within the context of dynamic stochastic general equilibrium models. Also “monetary policy rules”, which dominated the literature on monetary economics in the last decade are widely studied, with a clear emphasis on open economy models. Credit units: 3 ECTS Credit Units: 6. Spr (A. H. Kara)

ECON 590  Pro-Thesis Seminar
Independent work leading to the selection and elaboration of thesis topic. Presentation of research in departmental seminars. Credit units: None ECTS Credit Units: .

ECON 591  Masters Pro.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. (Fall Semester) Credit units: None ECTS Credit Units: . Aut (Staff)

ECON 592  Masters Pro.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. (Spring Semester) Credit units: None ECTS Credit Units: . Spr (Staff)

ECON 593  Seminar in Economic Design I
This seminar will discuss topics in "Economic Design" which can be described as the art and science of inventing, analyzing and testing economic as well as social and political institutions and mechanisms aimed at achieving individual objectives and social goals. Constitutions, allocation and regulation mechanisms, tax and incentive schemes, contracts, voting procedures, markets and auctions exemplify legal-economic instruments that can be used in solving design problems. Credit units: None ECTS Credit Units: .

ECON 594  Seminar in Economic Design II
Continuation of ECON 593. Credit units: None ECTS Credit Units: . Spr (Staff)

ECON 599  Master's Thesis
Credit units: None ECTS Credit Units: . Aut (Staff) Spr (Staff)

ECON 691  Ph.D. Pro-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. (Fall Semester) Credit units: None ECTS Credit Units: . Aut (Staff)

ECON 692  Ph.D. Pro-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. (Spring Semester) Credit units: None ECTS Credit Units: .

ECON 699  Ph.D. Dissertation
Credit units: None ECTS Credit Units: . 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 of History.

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 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 the departments of social sciences and humanities 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 who are interested in history are also eligible to apply for admission. Students admitted should have passed the English Language Test (level equivalent to TOEFL 213). (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 33 units of credit at the Graduate Program in History at Bilkent.
2. Students of Ottoman History must demonstrate competence in Ottoman Turkish and at least in one of the elective European and in one of the Middle Eastern languages.
3. Students of European History and the History of the United States must demonstrate competence at least in two of the elective European languages.
4. A Master’s thesis must be submitted and accepted.
5. A grade point average of at least 3.00 must be maintained for the totality of Master’s level work.
### Preparatory Year

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#### AMERICAN HISTORY OPTION

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#### GRADUATE ELECTIVES

### OTTOMAN HISTORY OPTION

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<td>HIST 541 Archival Research and Methodology for Late Ottoman History</td>
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<td>HIST 554</td>
<td>Turkish War of National Liberation</td>
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<td>HIST 612</td>
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**EUROPEAN HISTORY OPTION**

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Doctor of Philosophy in History

To enter the Ph.D. program a candidate is required to have completed the 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.

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. The dissertation has to represent a substantial contribution to the historical knowledge in one of the particular fields of study.

### GRADUATE ELECTIVES

#### Autumn Semester

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COURSE DESCRIPTIONS

HIST 111 Introduction to Ottoman Turkish I
This course gives an introduction to the reading and writing systems and grammar of Ottoman Turkish through close reading of graded selections taken from poems, essays, short stories and archival materials printed in the late Ottoman and early Republican era. Credit units: 3 ECTS Credit Units: 6.

HIST 112 Ottoman Imperial Socio-Economic History, 1453-1600

HIST 113 Introduction to Ottoman Turkish III
The course is devoted to the reading and understanding of texts focusing on key issues in late Ottoman and early Republican Turkish history. The course goals are to develop reading skills on Ottoman Turkish and to examine important texts written between 1700 and 1928. Credit units: 3 ECTS Credit Units: 6.

HIST 114 Ottoman Turkish IV
This course emphasizes the different types of ottoman writing in the elaborate high style of classical Ottoman (15th to 20th century). Selections from manuscripts are used to enable students to read the types of texts they are likely to encounter in their historical research. Some documents will be selected from Ottoman archives. The documents will be in Nasih, Rik'a, Divan scripts. Credit units: 3 ECTS Credit Units: 6.

HIST 313 Classical Arabic I
Basic grammar of Classical Arabic. The main tenses. Credit units: 3 ECTS Credit Units: 6. Aut (A. Simin)

HIST 314 Classical Arabic II
Basic grammar of Classical Arabic. Irregular grammatical forms. Reading of simple religious and legal texts. Credit units: 3 ECTS Credit Units: 6. Spr (A. Simin)

HIST 315 Advanced Classical Arabic I
Reading and grammatical interpretation of Classical Arabic texts. Credit units: 3 ECTS Credit Units: 6. Aut (A. Simin)

HIST 316 Advanced Classical Arabic II
Reading and grammatical interpretation of Classical Arabic texts. Credit units: 3 ECTS Credit Units: 6. Spr (A. Simin)

HIST 347 Ottoman Reform Movements I: Political and Social (1550-1839)

HIST 348 Ottoman Reform Movements II: Political and Social (1839-1914)

HIST 401 Ottoman Turkish and Paleography I
Course on Arabic script and Ottoman grammar. Credit units: 4 ECTS Credit Units: 8. Aut (Staff)

HIST 402 Ottoman Turkish and Paleography II
Course on Arabic script and Ottoman grammar. Reading exercises on printed Ottoman texts. Credit units: 4 ECTS Credit Units: 8. Spr (N. Gök)
HIST 403  The American Revolution in Comparative Perspective
This course examines the era of the American revolution, 1760s-1780s, to understand the causes, means, and consequences of America’s war for independence. Companions to revolutions in Europe, Latin America, Africa, and the Middle East will be drawn. Students are expected to read, write, and discuss relevant literature on a weekly basis. Credit units: 3 ECTS Credit Units: 6.

HIST 405  Islamic and Turkish History Until the Ottoman Empire
This survey course covers the origin and the land of the Turks as recorded in classical sources. The Pre-Islamic Turkish States such as the Huns, Gök Türks and Uyghurs, and the Turkish States at the advent of Islam. The cultural background of the Turks. The sources of Islamic history and their methodological significance. Pre-Islamic Arabia. The prophet Muhammed’s life and his achievements. The first four caliphs and the early Islamic conquest. Muawiya and his successors. Umar b. Abdutarik and his reforms. The fall of the Ummayads. The coming of the Abbasids and their rise. The decay of the Abbasid caliphate and the rise of the Turks and minor dynasties. The achievements of the Buwayhids, Hamdanis and Fatimids. The crusaders in Syria and the Ayyubids. The coming of the Seljuks. The Turkish Principalities of Anatolia. Credit units: 3 ECTS Credit Units: 6.

HIST 411  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 Credit Units: 6. Aut (Ö. Özel)

HIST 412  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 Credit Units: 6. Spr (Ö. Özel)

HIST 413  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 Credit Units: 6. Aut (E. Kermeli)

HIST 414  Byzantine History II: 1025-1453

HIST 415  British History: 1485-1914
Development of the religious, social and economic structures of the states in the British Isles from the accession of the Tudor dynasty to the zenith of imperialism and industrialism in the early 20th century. Credit units: 3 ECTS Credit Units: 6. Aut (C. Leighton)

HIST 416  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 Credit Units: 6.

HIST 417  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 Credit Units: 6. Aut (D. Thornton)

HIST 418  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 Credit Units: 6. Spr (C. Leighton)

HIST 419  Us Immigration History
This course will provide an overview of immigration to the United States from the colonial period to the present. It will focus on governmental policy toward immigration as well as on the social history of immigrants and the communities they established. Particular attention will be given to the questions of assimilation and acculturation and to the role of immigration in shaping an “evolving” American identity. Credit units: 3 ECTS Credit Units: 6.

HIST 420  US Historiography
This course surveys the writing of American history from the patriotic/romantic historians of the early-nineteenth century through the progressive historians of the late-nineteenth and early-twentieth century, the consensus historians of the immediate post-World War II period, the new social historians who emerged in the 1960s, and on to the post-modernists of the late-twentieth and early-twenty-first century. Along the way we will learn how historians’ interpretations of the U.S. past change to reflect the times in which they (the historians) lived. Credit units: 3 ECTS Credit Units: 6.
HIST 424  America and the World since 1898  
This course examines United States foreign relations from the late nineteenth century through twentieth centuries. Particular attention is given to diplomacy, military and economic history using primary and secondary sources. Aspects of American foreign policy decisions, patterns and themes will be covered. A variety of historiographical approaches will receive attention as well as differing ideas over the motives behind America's dealings with foreign powers over time and by region. Credit units: 3 ECTS Credit Units: 6.

HIST 426  The History of the American South  
Theories in the development of the Southern United States. Race, paternalism violence. Honour. Agrarianism. States rights. Populism. Also the problem of regional history. Time period covered is from the era of the old south of the early 19th century to the present. Credit units: 3 ECTS Credit Units: 6. Spr (T. Roberts)

HIST 431  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 Credit Units: 6. Aut (E. Kohn)

HIST 432  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 Credit Units: 6. Spr (E. Kohn)

HIST 433  History of American Politics  
Survey of the political history of the United States from the 18th century to the present, this course introduces students to organizing themes of U.S. political theory, electoral systems, politics in the legislature and the social bases of political power. Credit units: 3 ECTS Credit Units: 6.

HIST 434  US Social History  
Survey of the development of American society and culture, focusing on the 19th and 20th centuries. The goal of the course is to sharpen students' understanding of the ways people lived in the United States and their responses to events - wars, economic change, demographic shifts - which were largely outside of their control. Credit units: 3 ECTS Credit Units: 6. Spr (Staff)

HIST 435  History of US Foreign Relations: The Cold War and Beyond  
A survey of the major developments in American foreign relations from the end of World War II to the present. The course will include considerable emphasis on US-Middle East relations. Credit units: 3 ECTS Credit Units: 6. Aut (T. Roberts)

HIST 461  An Introduction to the Economic History of Europe from the 16th to the 20th Century  
After examining the special nature of 'economic history' and the relationship between economic and historical disciplines within it, the course will go on to look at major episodes within the economic history of Europe and the wider world, concentrating on developments from the sixteenth century to the twentieth. Among the subject covered will be the sixteenth-century price revolution, the impact of exploration, colonial settlement and trade beyond Europe, the seventeenth-century crisis, the onset of a commercial society, the industrial revolution, imperial economies of the nineteenth century, the impact of mass production, and the Great Depression of the 1930s. Credit units: 3 ECTS Credit Units: 6.

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.

GRADUATE COURSES

HIST 500  Mystics and Their Patrons in the Ottoman Empire  
The graduate seminar examines the Sufi convents in the Ottoman Empire in light of primary sources that include archival sources related to endowments, literary sources such as hagiographies and poetry, and religious treatises. As Sufism remains in the margins of Islamic historiography, only a small number of historians and architectural historians have treated the architecture of Sufi convents and relevant texts in historical context. This situation is reflected in Ottoman studies as well. Through a historically sensitive examination of textual and architectural sources, this seminar aims to provide an overall understanding of Sufism as an important social force in Ottoman history. However, the readings will focus primarily on two Sufi brotherhoods that formed and maintained empire-wide networks from the late fifteenth century onwards, namely the Halvetis and the Bektashis. Focusing on the sixteenth century, we will discuss their diverse interactions with the Ottoman ruling elite, with the ilmiyye, with political actualities such as the Ottoman-Safavid conflict, and with intellectual and artistic traditions of the greater Islamic world. Students will be encouraged to discern the impact of these diverse interactions on the nature of the two networks, the patronage and architecture of their convents, and their literary output. Credit units: 3 ECTS Credit Units: 6. Spr (Z. Yürekli Gökçay)
HIST 501  Ottoman Paleography I
Advanced reading exercises on Ottoman documents. Credit units: 4 ECTS Credit Units: 8. Aut (N. Gök)

HIST 502  Ottoman Paleography II
Advanced reading exercises on Ottoman documents. Credit units: 4 ECTS Credit Units: 8. Spr (N. Gök)

HIST 504  Crisis Regionalism and Reform in the Ottoman Empire (1774-1839)
This seminar is a thorough of a short but significant period of transition, crisis, and early reform in the Ottoman Empire. This seminar is a survey of political concepts and institutions of this transitional period. Its main aim is to discuss and understand the distinct political culture of the time between the Ottoman ancien régime and modern reformism. The seminar will visit the themes such as the beginning of the Eastern Question, regionalism and provincialism, janissary claims, the role of reading and listening public, the New Order (Selimism) and reformism, the coups and the role of crowd, premature constitutionalism, and popular sultanism (Mahmudism). Throughout the seminar, basic constitutional and political texts (including some diplomatic treaties) of the period, such as Treaty of Kucuk Kaynarca, Hicnet-i Ser'eye of 1807, Sened-i Ittifak (1808), Treaty of Bucharest (1812) and Gülhane Hatt-i Humâyunu of 1839 will be scrutinized with the contemporary historical narratives, such as Tārīh-i Asfī, Tārīh-i Vâsıf, Şânizade Tarihî, Révolutions de Constantinople by J. Saint-Denys, as well as French, British, Austrian, and Russian diplomatic documents. The seminar will mainly focus on the primary sources. Credit units: 3 ECTS Credit Units: 6.

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. 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 (P. Latimer)

HIST 508  Methodology in History II
Main methods and approaches in historical research. Problems of historical research using primary sources. Sourceology, and text criticism and analysis. Credit units: 3 ECTS Credit Units: 6. Spr (D. Thornton)

HIST 509  Latin Palaeography for Medieval and Early Modern European History
The aim of this course is to introduce the main developments in European handwriting for the period 500 to 1600, and to enable history students to use Latin and vernacular manuscript sources as part of their research. In addition to different scripts, the course will also cover other palaeographical topics, such as abbreviations, as well as codicology and manuscript illumination. Credit units: 3 ECTS Credit Units: 6.

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. Social, economic and religious institutions. Credit units: 3 ECTS Credit Units: 6. Spr (O. Özel)

HIST 513  Intellectual Movements in the Tanzimat Period I
Study of the development of the Enlightenment notions of reason, material progress and civilization among the Ottoman bureaucratic elite. Ideas of Mustafa Resit Paşa, Sadık Rifat Paşa and Cevdet Paşa. Islamist reaction against the Tanzimat elite, introducing the ideals of constitutionalism and popular sovereignty. Emergence of cultural enlightenment (Sınasi, Münif Paşa, A. Midhat, Ş. Şami). Credit units: 3 ECTS Credit Units: 6.

HIST 515  Aspects of Ottoman Social History I
Main foundations of the Ottoman Empire. Demographic movements, fiscal structure, administrative institutions, land and peasants, settlement patterns, internal and external trade. Credit units: 3 ECTS Credit Units: 6.

HIST 516  Aspects of Ottoman Social History II
Main foundations of the Ottoman Empire. Demographic movements, fiscal structure, administrative institutions, land and peasants, settlement patterns, internal and external trade. Credit units: 3 ECTS Credit Units: 6.
HIST 517  Ottoman Millet System
Legal and social status of non-Muslim communities in the Empire, their cultural life and ecclesiastic organizations. The evaluation of the Christian and Jewish communities after the decree of “Tanzimat” in 1839 and after the Congress and Convention of Paris in 1856 will be discussed in this course. Credit units: 3 ECTS Credit Units: 6.

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. Spr (N. Gök)

HIST 519  Sources of Ottoman Social and Economic History I
The Ottoman land regime. Social and legal changes throughout the Ottoman period. Reading and analysis of sources such as berats, mühûmmes, sicils, tahırs, temettûats and vakfiyês. Credit units: 3 ECTS Credit Units: 6.

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, mühûmmes, sicils, tahırs, temettûats and vakfiyês. Credit units: 3 ECTS Credit Units: 6. Aut (O. Özel)

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 525  Transition from Late Byzantium to Early Ottoman
Comparison of the institutions of the Byzantine Empire and those of its successor state, the Ottoman Empire. Discussion of continuity and change. Examinations of institutions such as the palace, pious endowments, land regime, taxation, guilds, armed forces based on Byzantine and Ottoman documents. Credit units: 3 ECTS Credit Units: 6.

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. Aut (P. Latimer)

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 yürüks 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. Islimization 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. Aut (E. Radushay)

HIST 531  Social and Economic History of the United States I

HIST 532  Social and Economic History of the United States II

HIST 533  Religion: East and West (1350-1850)
The course offers a general understanding of European religious history from the late medieval period up to and including the earliest stages of secularization in the post-revolutionary/Tanzimat period. In dealing with western and central European history, its chief concerns are the transition from medieval to modern religion, and the challenge of the Enlightenment and the responses to it. In dealing with eastern European and Ottoman history,
it examines the continuation of the Byzantine religious tradition in eastern Europe and in the Ottoman dominions and discusses the historical relationship between Christianity and Islam. Credit units: 3 ECTS Credit Units: 6. Aut (C. Leighton)

HIST 534  Themes in the History of American Radicalism
This course establishes a conceptual framework, and then focuses on significant episodes in the history of American radicalism. Groups and movements studied include Puritanism, anti-federalism, abolitionism, secessionism, agrarianism, anarchism, socialism, suffragism, and black and ethnic separatism. Topics include the recurring or unique goals and strategies of radicals, the composition of radical groups, their relationship to mainstream society and the government, and their respective successes and failures. Students are asked to think critically and, where appropriate, from comparative or international points of view. Readings include primary and secondary sources. Open to graduate students and undergraduate students with department advisors’ approval. Credit units: 3 ECTS Credit Units: 6.

HIST 535  Abdulhamid: Reformer or Reactionary
The development of Ottoman government and society during the reign of Sultan Abdülhamid 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.

HIST 538  US in the Gilded Age and Progressive Era

HIST 539  Models of Cooperation in Ottoman Society
The aim of this course is to provide an overview of conflict and co-existence within the multicultural Ottoman society. The organisation and administration of Christians after the Ottoman conquest and their interaction with the muslims in the empire is to be discussed based on examples of cooperation and antagonism. The first part of the course will discuss the relation between christians and muslims in the fluid societal environment of the ottoman emirate and the second part will explore their interaction when the empire is established up until the 18th century. The course is to be a mixture of a lecture and a seminar. Students will be required to present a topic of interest each week to be followed by a discussion. Ottoman and Byzantine chronographies, hagiographies, imperial orders, patriarchal and private letters, folkloric songs, judicial opinions and court records are to be used. Byzantine Greek and Ottoman Turkish is not a prerequisite for the attendance of the course. Credit units: 3 ECTS Credit Units: 6. Aut (E. Kermeli)

HIST 541  Archival Research and Methodology for Late Ottoman History
This is a thematic course focusing on archival research for the 18th and 19th Century Ottoman History. Throughout the course, fundamental constitutional, diplomatic and administrative texts of the late Ottoman Empire will be thoroughly red, analyzed and interpreted. Fundamental categories of the Ottoman administrative texts, such as ferman, ilam, arz hüccet will be examined. Fundamental archival sources of the period, such as ahkam, mühimme, baş muhasebe defters and court records, will be discussed. Besides the Ottoman archives in Turkey, European archives will be introduced. At the end of the class, each student will be asked to write two five-page papers based on archival documents. Credit units: 3 ECTS Credit Units: 6.

HIST 543  The British Isles in the Early Modern Period
The course seeks to describe the distinctive mentalities and societies to be observed in the British Isles, in the post-medieval period and to consider the political, military and other consequences of this diversity. The topics are considered with reference to contemporary phenomena on the European mainland. Credit units: 3 ECTS Credit Units: 6.

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 549  Rebellions and Revolutions in Early Modern History
The concept of the General Crisis of the seventeenth century. Dissolution of feudal structures. Popular upheavals, revolutions and civil wars. Explanation of the importance of this concept for the political, religious, social and economic histories of European states as well as of the Ottoman Empire. Credit units: 3 ECTS Credit Units: 6.
HIST 551 Turkish Linguistics I
Introduction of Old Anatolian Turkish to graduate students in Ottoman history. Grammatical characteristics of historical text from the Beylik period to the late 14th century Ottoman state. Credit units: 3 ECTS Credit Units: 6.

HIST 553 War, Technology and the American Military Experience 1605-1898
This seminar exposes students to the trends and themes that comprise American military thought and practice from the Colonial era to the eve of the Spanish-American War. It investigates various factors that shaped the American military experience, national defense strategies, doctrine, and the impact of technology upon armed conflict. The seminar strengthens graduate student critical thinking skills by allowing students to formulate their own ideas about the American military experience through a broad exposure to US military concepts and practices. Credit units: 3 ECTS Credit Units: 6.

HIST 554 Turkish War of National Liberation
The Turkish War of National Liberation, 1918-1923. A study of the means by which the Turks achieved their independence and established the Turkish Republic in the face of foreign occupation following World War I, with special emphasis on the political, economic and social movements in Turkey during the war, the structures, organizations and operations of the Istanbul and Ankara governments, as well as relations between them, the destruction and massacre inflicted by the invading armies, and the movement and settlement of Muslim and non-Muslim refugees during the war. Credit units: 3 ECTS Credit Units: 6.

HIST 555 Modernization of the Ottoman Empire During the 19th Century
Study of the Ottoman Tanzimat reform movement (1839-1876), its preliminaries during the reigns of sultans Selim III (1789-1807) and Mahmud II (1808-1839), its culmination during the reign of Sultan Abdülhamid II (1876-1908) and the Ottoman Constitutional Era (1908-1923). Credit units: 3 ECTS Credit Units: 6.

HIST 556 War, Technology and the American Military Experience: Since 1898
This course exposes students to the trends and themes that comprise American military thought and practice from the Spanish-American War to the present. It investigates various factors that shaped the American military experience, national defense strategies, doctrine and the impact of technology upon armed conflict. The course strengthens graduate student critical thinking skills by allowing students to formulate their own ideas about the American military experience through a broad exposure to US military concepts and practices. Credit units: 3 ECTS Credit Units: 6.

HIST 557 Religion and Nationalism in 19th-Century Europe and the Balkans
The formation and development of nationalist movements in the late eighteenth and nineteenth centuries. Their relationship to religion, and competing and complementary ideologies. Study of concrete examples based on Irish and Polish nationalisms, the development of Zionism, nationalism in the Ottoman Balkans and Arabia, and the Ottoman responses. Credit units: 3 ECTS Credit Units: 6.

HIST 559 Economic History, The Rise of Capitalism
Analysis of Western economic development from the mid-seventeenth century to the present. Topics include: mercantilism, the rise of capitalism, industrialization, slave economics, agrarian economics, depressions, technological innovation, and the global economy and de-industrialization. The contributions of intellectuals and the responses of workers to various economic developments and changes will also be considered. Credit units: 3 ECTS Credit Units: 6. Aut (T. Roberts)

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. Price inflation. Reasons and consequences of these developments. Credit units: 3 ECTS Credit Units: 6. Spr (P. Latimer)

HIST 567 History and Literature in the Ottoman Empire

HIST 568 British History-Writing to the Enlightenment
The course has as its subject matter a variety of writings about the past created in the languages of the British Isles, from the early medieval period until the end of the eighteenth century. It seeks to show the circumstances of their composition, their purposes, and their role in such fields as law, theology, politics and purely imaginative literature. The purpose of the course is to allow the student to become acquainted with large areas of the intellectual history of the British Isles and also provide a comparative basis for a critical consideration of modern historiography. Credit units: 3 ECTS Credit Units: 6.
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 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. Spr (C. Leighton)

HIST 575 US Labor and Immigration History
Labor history and the history of immigration into the United States are intimately related topics. This course is designed to give students in the graduate program in American history an in-depth look at this relationship, with a focus on historiography. Topics may include colonial economies and labor, slavery, early industrialization and the breakdown of skilled trades, later industrialization and the struggle for control of the shop floor race and the American working class, NAFTA, and post-industrialization. Credit units: 3 ECTS Credit Units: 6.

HIST 576 The Ottoman Empire in the Great War 1911-1923
Internal and external conditions in the Ottoman Empire during the Tripolitanian War (1911-1912), the Balkan Wars (1912-1913), World War I (1914-1918), and the Turkish War of National Liberation (1918-1923). Credit units: 3 ECTS Credit Units: 6. Spr (S. Shaw)

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, militarism, and the cold war. Credit units: 3 ECTS Credit Units: 6.

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: 6. Aut (S. Shaw)

HIST 580 American Foreign Relations from the Early Republic to World War I
Important themes in the formation and early development of American foreign relations: Exceptionalism, isolationism, unilateralism, hegemony, expansionism, anti-colonialism, idealism, period covered 1787-1918. Credit units: 3 ECTS Credit Units: 6. Spr (T. Roberts)

HIST 582 Latin Kingdom of Jerusalem 1099-1291
Brought into being by the First Crusade, the Latin Kingdom of Jerusalem established a western presence in Palestine which, with the somewhat erratic assistance of further crusades, maintained itself against the Muslims, for nearly two centuries, before finally being destroyed by the Egyptian Mamluks. This course will examine the complex society that arose there of Latin princes, knights and lesser folk from Northwestern and Northern Europe, Military Religious Orders, Italians, Eastern Christians, Jews and Muslims. Although, focused on the Latin kingdom of Jerusalem itself, the course will also necessarily deal to some extent with the other crusader states of the Near East in this period, as well as the Muslim, Byzantine and Mongol states of the region. Credit units: 3 ECTS Credit Units: 6. Spr (P. Latimer)

HIST 591 Seminar in Ottoman History I
Reading and interpretation of selected sets of documents on particular topics. Credit units: None ECTS Credit Units: None. Aut (H. İnalcık)

HIST 592 Seminar in Ottoman History II
Independent work on the periods of transition and modernization of the Ottoman state and society. Credit units: None ECTS Credit Units: None. Spr (H. İnalcık)

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: 3. Aut (E. Kohn)

HIST 597 Seminar in Ottoman History III
Reading and interpretation of documents related to individual student's thesis research. Credit units: 3 ECTS Credit Units: 3. Aut (E. Radushev)

HIST 598 Seminar in Ottoman History IV
Reading and interpretation of documents related to individual student's thesis research. Credit units: None ECTS Credit Units: None.
HIST 599 Master's Thesis  
Credit units: None ECTS Credit Units: . Aut (Staff) Spr (Staff)

HIST 612 Ottoman Imperial Socio-Economic History, 1453-1600  
Mehmet the Conqueror and the establishment of the Ottoman Empire. Ottoman administration in its classical form. The Çif-Hane system. The Şari’a and Örf. The Ulema and thereligious orthodoxy. Heterodox movements in the provinces. Credit units: 3 ECTS Credit Units: .

HIST 613 Urban Institution in the Ottoman Classical Period, 1500-1600  

HIST 616 The Rise of the Hanedans and the Sublime Porte, 1774-1821  
The Russo-Ottoman War of 1768-1774 and the dependency of the central government on the Ayans. Hanedans as political and military forces challenging the Sublime Porte. The Sened-i İttifak as the tidemark of the Hanedan-power. Elimination of the Ayans and the Hanedans. Credit units: 3 ECTS Credit Units: .

HIST 644 Intellectual History of Medieval Europe 12th-15th Century  
Intensive study of major themes and figures in political, theological and scientific thought in the Middle Ages. The 12th-century Renaissance, the high medieval synthesis and late medieval developments. Credit units: 3 ECTS Credit Units: .

HIST 651 Continental and Insular Ancien Regimes  

HIST 699 Ph.D. Dissertation  
Credit units: None ECTS Credit Units: . Aut (Staff) Spr (Staff)
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 business. 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, Theory of Political 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

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<thead>
<tr>
<th>Autumn Semester</th>
<th>Credits / ECTS Credits</th>
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<tr>
<td>GE 100 Orientation</td>
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<tr>
<td>ECON 101 Introduction to Economics I</td>
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<td>POLS 101 Introduction to Political Science I</td>
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<td>ENG 101 English and Composition I</td>
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<tr>
<td>SOC 101 Introduction to Sociology</td>
<td>3 / 5</td>
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<tr>
<td>TURK 101 Turkish I</td>
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<tr>
<td>HCIV 101 History of Civilization I</td>
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<tr>
<th>Spring Semester</th>
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<tr>
<td>CS 121 Introduction to Computing for Social Sciences</td>
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<td>ECON 102 Introduction to Economics II</td>
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<td>POLS 102 Introduction to Law</td>
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<tr>
<td>ENG 102 English and Composition II</td>
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In addition to elective courses offered by the Department of International Relations, students are allowed to take up to one elective per semester from the departments of Economics, Political Science and Public Administration, Management and/or philosophy or foreign language courses.

JOINT BILKENT-SUNY UNDERGRADUATE PROGRAM

in Global and International Affairs

The joint Bilkent-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 on the U.S. Test Of English as a Foreign Language (213 on the electronic version).
Minimum credits for the joint Bachelor’s Degree in Global and International Affairs is 120 (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)

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<tr>
<td>MATH 264 Statistics for Social Sciences</td>
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<td>ECON 102 Introduction to Economics II</td>
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<tr>
<td>POLS 102 Introduction to Law</td>
<td>3 / 6</td>
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<tr>
<td>ENG 102 English and Composition II</td>
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<tr>
<td>TURK 102 Turkish II</td>
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THIRD YEAR (Bilkent University)

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<th>Autumn Semester</th>
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<tr>
<td>PHIL 241 Social and Political Philosophy I</td>
<td>3 / 6</td>
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<tr>
<td>IR 303 International Law I</td>
<td>3 / 6</td>
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<tr>
<td>IR 439 Turkish Foreign Policy I</td>
<td>3 / 6</td>
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<tr>
<td>ENG 241 Sophomore Academic English I</td>
<td>3 / 5</td>
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<tr>
<td>HIST 201 History of Turkish Republic I</td>
<td>2 / 1</td>
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<tr>
<td>Elective (International Relations)</td>
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<tr>
<th>Spring Semester</th>
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<tbody>
<tr>
<td>PHIL 242 Social and Political Philosophy II</td>
<td>3 / 6</td>
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<tr>
<td>IR 304 International Law II</td>
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<td>IR 440 Turkish Foreign Policy II</td>
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<tr>
<td>ENG 242 Sophomore Academic English II</td>
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<tr>
<td>HIST 202 History of Turkish Republic II</td>
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<tr>
<td>Elective (International Relations)</td>
<td>3 / 6</td>
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SECOND and FOURTH YEARS (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 enrol 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)

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 30 units of credit. Each student must take “IR 620 Theories and Methods of International Relations” as well as the required courses of his/her area of concentration.
2. A Master’s thesis must be submitted and accepted.
3. A grade point average of at least 3.00 must be maintained for the totality of Master’s level work.

Every Master’s candidate must demonstrate reading and writing proficiency in a language appropriate to the candidate’s area of research, preferably before beginning to work for the thesis. The language requirement may be satisfied in two ways: 1) by obtaining at least an average of grade B (3.00) for the level of 6 units. Language course credits cannot be substituted for the minimum 30 credits required for the degree; or 2) by being a native speaker of the language appropriate to his/her area of research.

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

FIRST YEAR

<table>
<thead>
<tr>
<th>Autumn Semester (Compulsory Courses)</th>
<th>Credits / ECTS Credits</th>
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<tbody>
<tr>
<td>MAN 509 International Business</td>
<td>3 / 6</td>
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<tr>
<td>ECON 507 Economics for International and Public Affairs I</td>
<td>3 / 6</td>
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<tr>
<td>IR 543 International and Public Policy Decision Making</td>
<td>3 / 6</td>
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<tr>
<td>IR 629 Global Political Economy</td>
<td>3 / 6</td>
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<tr>
<td>ELS 405 Graduate Writing and Presentation Seminar</td>
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<tr>
<th>Spring Semester (Compulsory Courses)</th>
<th>Credits / ECTS Credits</th>
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<tbody>
<tr>
<td>MIAPP 502 The Structure of Turkish Economy and The EU</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>
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<tr>
<td>IR 547 International Politics</td>
<td>3 / 6</td>
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<tr>
<td>IR 574 Turkey’s International Relations</td>
<td>3 / 6</td>
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<tr>
<td>IR 594 International Law and Organizations</td>
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SECOND YEAR

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<tr>
<th>Autumn Semester</th>
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<td>Electives (5)</td>
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<th>Spring Semester</th>
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<tr>
<td>Electives (5)</td>
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</table>
GRADUATE ELECTIVES

MIAPP 504 Turkey's Relations With her Neighbours .................................................. 3 / 6
MIAPP 511 European Identity ......................................................................................... 3 / 6
MIAPP 512 Contemporary Political Theory ................................................................. 3 / 6
MIAPP 513 Case Studies on Foreign Policy ................................................................. 3 / 6
MIAPP 533 Private Finance Models in Infrastructure .................................................. 3 / 6
MIAPP 535 Human Rights in the European Context .................................................. 3 / 6
MAN 502 Business Ethics ............................................................................................. 3 / 6
MAN 507 Business Law ................................................................................................. 3 / 6
MAN 509 International Business .................................................................................... 3 / 6
MAN 524 Investment Analysis ....................................................................................... 3 / 6
MAN 535 Special Topics in Marketing .......................................................................... 3 / 6
MAN 539 Consumer Behavior ....................................................................................... 3 / 6
MAN 572 European Community Law ............................................................................ 3 / 6
IR 311 Russian History .................................................................................................. 3 / 6
IR 315 History of the Balkans ......................................................................................... 3 / 6
IR 408 European Union Law .......................................................................................... 3 / 6
IR 433 Selected Topics in International Politics and Economy ..................................... 3 / 6
IR 462 War and Diplomacy: The Ottoman Empire 1800-1923 ..................................... 3 / 6
IR 549 Greek Politics and Foreign Policy ....................................................................... 3 / 6
IR 567 Contemporary Russia ......................................................................................... 3 / 6
IR 581 Perspectives on Globalization and the International System ............................ 3 / 6
IR 634 Peace Operations ................................................................................................. 3 / 6

After having completed the core curriculum course work during their first year, students must satisfy the requirements of the second year through the completion of the course work of at least 30 credit units (five elective courses each semester). Students who wish to concentrate on European Affairs are advised to take at least 6 courses from basket 2. Those students who wish to acquire a more general international and policy outlook can construct their own individual programs by selecting courses out of all the baskets with the advice of the Director. Elective courses are divided into five baskets:

1. International Relations and security
2. Politics, Economics and Law of European Integration
3. International Economics and Management
4. Decision-Making and Governance
5. Area Studies

Doctor of Philosophy in International Relations

This is a highly specialized program. Its purpose is to develop the candidates’ skills 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 Europe, the Balkans, Russia, the Middle East, Central Asia and Caucasus. The program is reserved for a limited number of students who are qualified to spend several years doing intensive research. The program is particularly suitable for those candidates who wish to stay in academic life after having obtained the Doctor of Philosophy degree.
The students accepted to this program must complete course work of no fewer than 24 credit hours. This requirement can be met by taking graduate-level International Relations courses and, if necessary, other courses approved by the Department. The compulsory courses are Current Debates in International Relations Theory (IR 621), and Reading and Research in Diplomatic History (IR 625).

Every Ph.D. candidate must demonstrate reading and writing proficiency in a language appropriate to the candidate’s area of research, preferably before beginning to work for the dissertation. The language requirement may be satisfied in two ways: 1) by obtaining at least an average of grade B (3.00) for the level of 12 units. 2) by being a native speaker of the language appropriate to his/her area of research.

**COURSE DESCRIPTIONS**

**UNDERGRADUATE COURSES**

**IR 203 International Relations I**  
The study of the historical and contemporary concepts that help explain the behavioral and institutional regularities in world politics.  
_Credit units: 3 ECTS  
Credit Units: 6. Aut (T. Fougner, P. Opek)_

**IR 204 International Relations II**  
The study of states, sub-national groups, supra-national organizations and transnational forces as major actors of world politics. Instruments of foreign policy.  
_Credit units: 3 ECTS  
Credit Units: 6, Prerequisite: IR 203. Spr (J. Kangas, G. Tuna)_

**IR 205 Diplomatic History I**  
Diplomatic history from the Peace of Westphalia until World War I.  
_Credit units: 3 ECTS  
Credit Units: 6. Aut (H. A. Karasar, S. McMeekin, S. Podbolotov)_

**IR 218 Diplomatic History II**  
Diplomatic history from World War I to the contemporary era.  
_Credit units: 3 ECTS  
Credit Units: 6, Prerequisite: IR 205. Spr (S. McMeekin, I. Ortaylı)_

**IR 229 Research Methods I**  
Study of research design and methods in the social sciences. Basic principles and foundations of empirical research. Comparison of quantitative and qualitative approaches.  
_Credit units: 3 ECTS  
Credit Units: 6. Aut (S. S. Güner, W. Korab-Karpowicz)_

**IR 230 Research Methods II**  
Methods of data collection analysis. Case studies in international relations.  
_Credit units: 3 ECTS  
Credit Units: 6, Prerequisite: IR 229. Spr (S. S. Güner, P. Opek, W. Korab-Karpowicz)_

**IR 303 International Law I**  
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 (İ. Akipek)_

**IR 304 International Law II**  
The second part of a comprehensive survey of international law as the normative factor in international relations, continuing IR 303. 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, Prerequisite: IR 303. Spr (İ. Akipek)_

**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 (Hınan)_

**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. Spr (S. H. Kırmılı)
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. Aut (S. H. Kırımlı)

IR 315 History of the Balkans
Recent developments have shown that the Balkans is a potentially explosive area and the sources of conflict have historical origins. This course will take up Balkan history from its origins to the post-cold war era and introduce the student to the structures of ethnic conflict. Credit units: 3 ECTS Credit Units: 6. Aut (H. Ünal)

IR 318 Contemporary Balkan Politics
This course examines current political development in the Balkans and highlights potential flash-points with special reference to wars in former Yugoslavia. Credit units: 3 ECTS Credit Units: 6. Spr (H. Ünal)

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. Spr (Y. ˙Inan)

IR 331 War Peace and Security
This course is about three concepts that have been at the core of thinking about world politics, namely: ‘war’, ‘peace’ and ‘security’. By introducing a wide variety of intellectual traditions and contemporary ideas on these three core concepts to students, this course aims to provide a comprehensive basis for understanding the dynamics of world politics. The general objectives include the development of oral, written and research skills as the course requires students to become able to read, absorb and critically assess a large amount of complex (and at times contradictory) material. The subject-specific objectives of the course include the ability to discuss the causes and significance of war, alternative meanings and practices of peace, and contending conceptions and practices of security. Credit units: 3 ECTS Credit Units: 6. Spr (H. P. Bilgin)

IR 333 Foreign Policy Analysis

IR 335 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. Aut (P. ˙Ipek, W. Korab-Karpowicz, A. Tekin)

IR 338 Politics of International Economy
Political analysis of the post-war international economic system. Bretton Woods and its institutions. North-South relations. Credit units: 3 ECTS Credit Units: 6. Spr (T. Fougner, P. Williams)

IR 401 American Politics and Foreign Policy
The dynamics of political institutions and processes of the federal government. The role of the interest groups, elites, political parties and public opinion. Foreign policy in the 20th century with special emphasis on its post-war emergence as the pre-eminent world power. Credit units: 3 ECTS Credit Units: 6.

IR 408 European Union Law
The historical evaluation of the European Community; the basis of EC Law; basic features, organization and functioning of European Community institutions; legal and budgetary principles of the community. Credit units: 3 ECTS Credit Units: 6. Spr (A. ˙F. Erdem)

IR 413 Game Theory and International Politics
This course is designed to study rational behavior related to conflict. Substantially, it focuses on strategic rationality underlying 1. bargaining; 2. deterrence; 3. surprise attack. Credit units: 3 ECTS Credit Units: 6. Spr (S. S. Guner)

IR 433 Selected Topics in International Politics and Economy
Special topics of international political economy will be studied: economic development, North-south relations, problems of foreign trade, aid, and investment, multinational corporations, environmental impact of economic policies. Credit units: 3 ECTS Credit Units: 6. Spr (P. Williams)

IR 434 Selected Topics in International Law
The course intends to focus on certain selected topics of contemporary international legal order and study them in depth referring to state practice, the practice of international organizations as well as to decisions of international
IR 435 European Integration
This course describes and analyzes the milestones (Coal and Steel Community, Common Market, Single Market, the post-Cold War decision to deepen and broaden endorsed first in the Maastricht Treaty) towards economic, political, etc. integration in Europe since 1945. The common institutions created to respond to the evolving needs and challenges of the integration process and the politics of integration will also be covered. Turkish-EU relations will be the final topic of the course. Credit units: 3 ECTS Credit Units: 6. Spr (Y. İnan)

IR 439 Turkish Foreign Policy I
Analysis of Turkish Foreign Policy from the beginning of the Republic until 1950. Credit units: 3 ECTS Credit Units: 6. Aut (N. B. Criss)

IR 440 Turkish Foreign Policy II
The setting, objectives and issues of Turkish Foreign Policy since 1950. Credit units: 3 ECTS Credit Units: 6. Prerequisite: IR 439 or IR 316; IR 439. Spr (N. B. Criss, A. Tekin)

IR 445 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 462 War and Diplomacy: The Ottoman Empire 1800-1923
A study of Ottoman relations with the Great Powers of Europe from Bonaparte's invasion of Europe until the establishment of the Turkish Republic. The course will emphasize Ottoman involvement in the Wars resulting from the French Revolution, the Muhammed Ali and near Eastern crises of 1821-1833 and 1839-1841, the Crimean War, the Near Eastern Crisis of 1875-1878 and Treaty of Berlin, and the diplomatic and military aspects of the Tripolitanian War, the Balkan Wars, World War I, and the Turkish War of National Liberation. Credit units: 3 ECTS Credit Units: 6. Spr (S. Shaw)

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 distribution, and corruption. Credit units: 3 ECTS Credit Units: 6. Spr (A. Tekin)

IR 465 Global Economic Governance
The aim of this course is to provide historical, theoretical and critical accounts of contemporary efforts to govern the world economy. The course focuses on the key multilateral institutions engaged in the management of the world economy, the growing role played by private authority, and the emergence of transnational social movements opposed to current forms of global economic governance. Credit units: 3 ECTS Credit Units: 6.

IR 466 Classical International Relations Theory
Classical International Relations Theory (from Thucydides to the present) is a seminar which aims to retrieve the intellectual tradition of the classical or traditional IR theory. Texts of celebrated theorists as Thucydides, Hobbes, Locke, Grotius, Pufendorf, Vatter, Kant, Marx, Carr, Morgenthau, Bull, and others will be studied. The course will also examine different patterns of thinking about international relations, and evaluate arguments and explore internal tensions of classic texts. Assessment will be based on participation and a term paper. Credit units: 3 ECTS Credit Units: 6.

IR 469 American President and Their Foreign Policies Since 1898
During the twentieth century American presidents have assumed increasing control over U.S. foreign policy. What shapes an individual president's foreign policy? Economics? Ideology? Domestic politics? Beginning with America's emergence as a world power in 1898, through to George W. Bush, this course will examine the unique context of each presidency, including the personality of the president, and its effect on U.S. foreign policy. Credit units: 3 ECTS Credit Units: 6. Spr (E. Kohn)

IR 471 Communication Skills For IR
The purpose of this course is to enhance students' oral communication skills by exposing them to the highly specialized vocabulary commonly found in foreign policy and diplomacy and by practicing a variety of speaking activities of particular importance in this field of study (eg. presentations, press conferences, and debates). This
course is primarily for students interested in pursuing careers in the Ministry of Foreign Affairs or in international organizations (eg. UN and the World Bank). Credit units: 3 ECTS Credit Units: 6. Spr (M. Krugman)

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 finesse employed in the diplomatic profession and as such, should be taken only by those who are interested in seeking employment in the Ministry of Foreign Affairs. Credit units: 3 ECTS Credit Units: 6. Aut (Staff) Spr (Staff)

IR 474 International Security: New Forces and New Paradigms
9/11 has capped, in the most dramatic fashion, trends since the end of the cold war concerning international security. Together they have challenged many of the underlying conceptual constructs, and corresponding policy choices and practices, concerning the meaning and imperatives of international security in an age of globalization. This course will explore the meaning of “new threats” (i.e. international terrorism, failed states, etc.) to international security; why and how they force a rethinking about the relevance of traditional mechanisms and instruments of approaching international security; and what the international community and institutions have done to cope with the “new threats.” Credit units: 3 ECTS Credit Units: 6.

IR 477 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 (P. Williams)

IR 478 Political Theory in International Relations
The purpose of this course is to acquaint students with the history of political philosophy as relevant to international relations. The course is based on reading of original texts and deals with selected political thinkers, such as Thucydides, Aristotle, Machiavelli, Grotius, Hobbes, Rousseau, Kant, and Clausewitz. We will critically examine the origins and development of the many concepts, including freedom, justice, individual rights, power, and democracy, and give special attention to philosophical thought on war and peace. Credit units: 3 ECTS Credit Units: 6. Aut (W. Korab-Karpowicz)

IR 479 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. Aut (H. A. Karasar)

GRADUATE COURSES

IR 529 Arms Control and Disarmament
This course is designed to teach the concepts, approaches and institutions related to arms control and disarmament and the historical developments and current trends in this field. Credit units: 3 ECTS Credit Units: 6. Aut (M. Kibaroglu)

IR 530 History and Politics in the Balkans
This course is designed to provide students with a thorough understanding of Balkan politics. Though the course will highlight certain historical points in order to give students the chance to make comparisons between the past and the present, it will mostly concentrate upon latest political developments in the Balkans. It will start off by giving students some background of Balkan politics in recent history in order for them to grasp part of the reasons for the existing turmoil in the area from a historical perspective. It will then focus upon the place of the Balkans in the general strategic policies of “Great” and “Super” powers. The course will be research-oriented, and every student will be expected to prepare a thorough research seminar on a given topic. Credit units: 3 ECTS Credit Units: 6. Spr (H. Ural)

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 certainty and risk, cardinal utility, subjective probability, the calculus and paradoxes of voting, and mispresentation 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. S. 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.

IR 549 Greek Politics and Foreign Policy
This course will initially focus on the Greek nation-building process and the making of Greek political culture. It will then focus on the history of Greece’s foreign policy. The course will concentrate on modern Greece and its foreign policy. Greece’s EU policy will be examined in detail. Greece’s regional policies, the Balkans, Russia and the Middle East will be looked at. The Greek-Turkish dispute will receive special attention. Credit units: 3 ECTS Credit Units: 6. Aut (H. Unal)

IR 560 Turkish Foreign Policy
Analysis of major issues in Turkey’s foreign relations. Credit units: 3 ECTS Credit Units: 6. Spr (D. Sezer)

IR 563 Intensive Russian Language
This course is an intensive introduction to Russian language. Its contents and coverage are equal to the total of Russian I, II, III and IV courses taught at Bilkent normally in four semesters. Credit units: 5 ECTS Credit Units: 12. Aut (G. Tannkuulu)

IR 565 Russian History Civilization and Culture
This course is a general overview of Russian history through specific case studies. The main themes of Russian history, civilization and culture from early times until the Russian revolutions would be covered in a seminar style. Credit units: 3 ECTS Credit Units: 6. Aut (S. Podbolotov)

IR 567 Contemporary Russia
This course is a comprehensive study of the Russian socio-economic and political system, focusing on the main actors of the system such as political parties, groups, church, power elite, intellectual movements, nationalism, etc. Credit units: 3 ECTS Credit Units: 6. Aut (S. McMeekin)

IR 569 International Business
In the course of the past few decades, international or global business has become an increasingly important feature of the world system, and the pressure grown on corporations throughout the world to internationalise or globalise. This course is intended to provide students with a basic interdisciplinary understanding of the contemporary world business environment, and to explore some of the key strategic decisions and practical issues confronting corporations with the international or global business operations. Credit units: 3 ECTS Credit Units: 6. Spr (P. İpek)

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. Spr (N. Stone)

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 573 Readings in Russian History Civilization and Culture
This course is an intensive introduction to the colorful world of Russian history, civilization and culture, aiming to increase students’ ability to understand and use sophisticated and intellectual level skills of the Russian language. Credit units: 5 ECTS Credit Units: 12. Spr (G. Tannkuulu)

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**

**IR 577 European Security and Defense Policy**
The main purpose of this course is to analyse the historical development of the European security and defense policies from the onset of the Cold War era up to date. In doing so, the main focus will be on the European Union, as it has been at the centre of the European attempts in this regard, particularly during the post-Cold War years. This course will not only adopt and empirical interest in analysing the evolutionary process of the European Security and Defense Policies but also rely on theoretical perspectives with a view to better comprehend the logic of this process. **Credit units: 3 ECTS Credit Units: 6.**

**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, Prerequisite: IR 205 or IR 218 or IR 625.**

**IR 579 Globalization and Security**
This course will familiarize students with the conceptual literature on globalization and security, especially the literature that addresses the intersection of these two phenomena. It will then address concrete issues in the security arena, such as weapons of mass destruction, revolution in military affairs, terrorism, humanitarian intervention, and collective security, to determine how far this hypothesis reflects the realities on the ground. It will also analyze North-North, North-South, and South-South relations. **Credit units: 3 ECTS Credit Units: 6.**

**IR 581 Perspectives on Globalization and the International System**
This course discusses globalization from both historical and contemporary perspectives in order to explore its political-economic roots and substance, its symbiotic relationship with technological change, and its repercussions on the international system of nation-states. It also explores the question of the governance of globalization. Seminar format with written and oral assignments. **Credit units: 3 ECTS Credit Units: 6.**

**IR 586 The Crimean War 1853-1856**
This course concentrates on the Crimean War (1853-1856), whose consequences molded the political and diplomatic relations in the European Continent. It will cover the pre-war situation (Revolutions in Europe (1848-1849), the crisis of the Great Power politics, the events that led to the war, the military preparations); the theatres of the war (Danubian, Crimean, Caucasian, Baltic, and Far Eastern fronts); the outcome of the war and the new balance of power in the international arena; the Paris Treaty; the Concert of Europe; the Eastern Question; the subsequent relations between the Russian and the Ottoman Empires. **Credit units: 3 ECTS Credit Units: 6.**

**IR 588 Readings in Central Asian History and Politics**
This course will examine the emergence and development of modern nation states in Central Asia, taking into account the efforts for nation-building, regional cooperation, as well as the revival of ethnic, tribal and religious identities. Although its scope is post-Soviet Central Asia, an important amount of readings on the history of the region before 1991 will be required to better understand the contemporary trends. **Credit units: 3 ECTS Credit Units: 6.**

**IR 590 Pre-Thesis Seminar**
This course is designed to guide the Master's students in their thesis work. Each student is instructed to select a thesis topic, to do the relevant literature review, to determine the research design and to write a thesis proposal. **Credit units: None ECTS Credit Units: 24.**

**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.**

**IR 597 Russia and Pan-Slavism**
This course aims at providing an understanding of the nature and essence of the Pan-Slavic idea(s) and its role on the Russian state and people from an historical perspective as well as its legacy today. The covered topics include the Roots of the (Pan-)Slavic idea among the East European Slavs and in Russia, the Slavophiles, Russian Pan-Slav ideology, Linguistic and Cultural Pan-Slavism, Pan-Slavism and the Russian state, Pan-Slavism and the Eastern Question, Pan-Slavism and the Polish Question, the Legacy of the Pan-Slavic ideology as it exists today. **Credit units: 3 ECTS Credit Units: 6.**
IR 598  Turkish Political Economy
This class is designed to introduce you to the political economy of the Turkish Republic. It starts with an overview of the Turkish political economy between the years 1908 and 1980. It then focuses on Turkey’s economic and political structure and reform efforts in the post-1980 period. Within the political economy context, it looks at Turkey’s interactions with the IMF, the EU and the USA. Finally, the course deals with the political economy of political ideologies; state-society relations; and the income distribution in Turkey. Credit units: 3 ECTS Credit Units: 6.

IR 599  Master’s Thesis
Credit units: None ECTS Credit Units: 30. Aut (Staff) Spr (Staff)

IR 616  Individual National and Global Security
Despite the prevalence of state-based (‘national security’) approaches to security studies during the Cold War, alternative ways of thinking about security – focusing on the individual and society – also developed during this time period. In the post-Cold War era the primacy of state in considerations of security has come under increasing challenge from a variety of perspectives. This course is designed to provide a critical overview of (1) state-based approaches to security in an increasingly globalized world; (2) alternative approaches to security that focus on individual, societal and/or global security. The strengths and weaknesses of these approaches will be highlighted through a consideration of cases such as Turkey’s national security, societal security and the role of security culture in Turkey-EU relations, regional security in the Middle East, state failure and human security in the developing world. Credit units: 3 ECTS Credit Units: 6. Spr (H. P. Bilgin)

IR 617  Eurasian Atlantic Security I
This course is designed to explore the dynamics behind and the interconnections among strategic changes that took place in large parts of the Northern Hemisphere following the end of the Cold War, and their consequent impact on hemispheric and international security. The emergence of ’Eurasia’, as a pivotal strategic space is one such development. It is in one part of Eurasia, for example, namely Afghanistan, that the terrorist attack on the United States on September 11, 2001, was masterminded. The second major strategic change occurred in the Euro-Atlantic zone. On this front, the absolute and relative power positions of the United States and Europe have drastically changed; transatlantic relations have been severely strained, and NATO has undergone functional and institutional redefinition. Fundamental questions to answer: How do these developments endanger regional, hemispheric and international security? To what extent have these developments fed on each other to create a new momentum for enhanced security cooperation among regional and global actors, for example, against international terrorism? Credit units: 3 ECTS Credit Units: 6. Aut (D. Sezer)

IR 618  Eurasian Atlantic Security II
This course, as the follow-up of IR 617 Eurasian-atlantic Security I, is designed to examine strategic issues in critical regions such as the Broader Middle East, the Black Sea and Caspian basins and Central Asia. It focuses not only on power political relationships between major regional and extra-regional actors, but also on cooperative security arrangements they make to contribute to regional stability and peace. How are major powers such as the United States, Russia, Turkey, and international organizations such as NATO, OSCE and EU engaged in those regions? How do regional states react to them? To what extent and in what ways do extra-regional involvements promote regional and national transformations? Credit units: 3 ECTS Credit Units: 6.

IR 619  Strategic Studies
This course examines the development of the field of strategic studies from the Cold War to the contemporary era with a brief look at certain classical theorists like Thucydides and Machiavelli. Theorists of nuclear war are given special attention. The course also examines a number of analytical methodologies employed in strategic studies, such as systems analysis, modeling and simulations, and the cybernetic theory of decision. Case studies in crisis management and coercive diplomacy are also investigated. Finally, the course focuses on contemporary threat paradigms, such as global terrorism, the proliferation of weapons of mass destruction, radical Islam, and nationalism and ethnic conflict. Credit units: 3 ECTS Credit Units: 6. Aut (J. Kangas)

IR 620  Theories and Methods of International Relations
This course provides an advanced introduction to current theoretical trends and methods in International Relations (IR). By the end of the course, students are expected to demonstrate greater practical ability in terms of the following: formulating new arguments or models in a particular sub-field of International Relations; applying existing IR models to particular empirical issues; testing arguments using appropriate tools of analysis; and developing critiques of how theories have been applied in their respective areas of interest. Credit units: 3 ECTS Credit Units: 6. Aut (P. Williams)
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. Aut (H. P. Bilgin)

IR 624 European Union Studies I
This course is designed to introduce graduate students to the discussions on the history, theory and architecture of the EU. It begins with a historical account of the origin and development of the EU in the post-war period. It then dwells on the theory of European integration from the classical to recent post-modern perspectives. Finally, the course ends with an in-depth analysis of the current EU institutions and their evolutions over time. Credit units: 3 ECTS Credit Units: 6. Aut (A. Tekin)

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.

IR 626 International Political Economy
The aim of this course is to provide students with an advanced, considered and critical understanding of the field of International Political Economy (IPE). The course begins by exploring the intellectual origins and disciplinary identity of IPE; proceeds by investigating the field’s main theoretical perspectives and thematic issues; and concludes by engaging with theoretical and substantive debates central to contemporary IPE. Credit units: 3 ECTS Credit Units: 6. Aut (T. Fougner)

IR 628 European Union Studies II
This course begins with a study of the contents of the current EU policies. It then turns to the external policies and linkages of the EU, including its enlargement and new neighborhood policies. Next part focuses on the alternative futures of the European democracy and capitalism. Among the issues discussed are the European approaches to the US hegemony, to the promotion of democracy, and to the global political economy, all in comparative perspective. Credit units: 3 ECTS Credit Units: 6.

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 economy; 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. Guvenen)

IR 631 Political Economy of Development
This course is addressed to students interested in a comprehensive introduction to development studies. The course is divided into three sections. The first section introduces the underlying assumptions and arguments of development theories to examine what development is and what development should be. The second section examines the role of state in economic, social, and human development by looking at the interplay between the state and market in development process. The third section examines the issues concerning development such as poverty, civil society, and security. Credit units: 3 ECTS Credit Units: 6.

IR 633 Security Policy Decision Making in the United States
The goal of this course is to assist students in acquiring knowledge about the theories, contemporary issues and bureaucratic structures involved with U.S. national security policy. The course will operate at two levels: the theoretical and applied. At the theoretical level, we will study in detail the theories and strategies guiding the formulation of national security policy. At the applied level, we will consider what these plans and concepts look like when they are actually implemented in an uncertain world fraught with domestic and international interests. In view of the recent release of the official critiques on US intelligence failures prior to 9/11 and the Iraq war, the course will place emphasis on the issues of strategic intelligence and the impact of the reforms on the US intelligence system. Credit units: 3 ECTS Credit Units: 6.

IR 634 Peace Operations
Evolution from collective security to peacekeeping operations. The new generation of peace operations after the Cold War. NATO-UN cooperation. Peace enforcement, peace-making and building. Conflict prevention. Humanitarian operations. Possibilities and constraints in peace operations are examined with reference to a number of typical and atypical cases ranging from the UN's experiences in the Suez and Cyprus to the post-Cold War operations such as Cambodia and Bosnia. Credit units: 3 ECTS Credit Units: 6. Aut (A. L. Karaosmanoglu)
IR 636  Science Technology and International Security
This course examines the role of science and technology in international security. Of primary concern is the relationship of science and technology to "cardinal choices" of policy such as the deployment and employment of weapon systems and arms control. The methodology used in the course is the case study and cases include the development of radar in WWII, the atomic and hydrogen bombs, the Strategic Defense Initiative, and tailored-effect nuclear warheads.  Credit units: 3 ECTS Credit Units: 6.

IR 699  Ph.D. Dissertation
Credit units: None ECTS Credit Units: 30. Aut (Staff) Spr (Staff)

MIAPP 502  The Structure of Turkish Economy and The EU
This course is designed to discuss the structure of Turkish economy with an emphasis on the possible effects of the integration process with the EU. It will also cover the Customs Union process, the Acquis Communautaires, the National Programme, the Pre-accession Economic Programme and financial cooperation.  Credit units: 3 ECTS Credit Units: 6. Spr (T.İnce)

MIAPP 504  Turkey's Relations With her Neighbours
Turkey has historical ties with her neighbours. Her ties are not only deeply rooted, but generally complex and problematic as well. In this course we will study Turkey's ties with her neighbours in the light of recent developments in the region, taking into consideration general political trends in the World.  Credit units: 3 ECTS Credit Units: 6. Spr (T.İnce)

MIAPP 511  European Identity
The course is intended to develop a critical perspective on the concept of European identity. European identity will be examined on the basis of the paradigms of national identity. The idea of Europe will be discussed through its historical journey. Future reflections on European identity will also be discussed through recent developments such as globalization, immigration and neo-nationalism. The course will conclude with a discussion on the interaction between Turkish identity and European identity taking into account the debates on Turkey's prospective access to the European Union.  Credit units: 3 ECTS Credit Units: 6. Aut (B. Erdenir)

MIAPP 512  Contemporary Political Theory
This course surveys the key issues and debates current in political philosophy today, including globalization, nationalism, neoliberalism, communitarianism, citizenship, multiculturalism, postmodernism, feminism and democracy. Authors discussed include Arendt, Foucault, Habermas, Jameson, Mouffe, Rawls, Taylor and others. Credit units: 3 ECTS Credit Units: 6. Spr (G. Brahm)

MIAPP 513  Case Studies on Foreign Policy
The purpose of this course is to prepare the MIAPP students to analytical understanding of foreign policy issues in International Relations. The course will attempt to enable the student to acquire the skills of drawing conclusions from such analytical thinking it will be conducted primarily on cases selected from the past as well as the present with a view to gain insight into the future.  Credit units: 3 ECTS Credit Units: 6. Spr (Staff)

MIAPP 531  International Economics
Trade theory and commercial policy. The institutions of the new global order and international division of labor. Foreign exchange markets and international monetary system.  Credit units: 3 ECTS Credit Units: 6.

MIAPP 533  Private Finance Models in Infrastructure
This course is intended to focus on certain special topics in financial and legal aspects of Private Sector Participation Models. Nevertheless, since the concept is of an interdisciplinary nature, the course path will cover a wide range of issues. Thus, it will cover such basic areas as, inter alia, privatization, project finance, competition, independent administrative authorities, public-private partnerships, private finance initiative, build-operate-transfer type of innovative financing models, etc. Based on international and local experience, financial and legal aspects of these broad terms will be analyzed in depth. Main infrastructure activities in different sectors like energy; telecommunication and transportation will be carefully examined with case studies from abroad as well from Turkey. Perspectives from both public and private sectors will be evaluated.  Credit units: 3 ECTS Credit Units: 6. Aut (Staff)

MIAPP 535  Human Rights in the European Context
The United Nations has had an important part in the promotion and development of the protection of human rights and fundamental freedoms. The European practice has greatly contributed to the same field on the regional level. Human rights issue is a dynamic process for every community. Turkey is a party to all of the European and most of the major UN human rights conventions. The improvement of human rights is imperative to all countries and Turkey is not an exception to that. There are relentless efforts going on in order to harmonize Turkey's national legislation with international standard-setting instruments. Much has been done in that respect but there is also considerable work to achieve.  Credit units: 3 ECTS Credit Units: 6. Aut (T. Frat)
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 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 public law, political theory, comparative politics, and Turkish government and politics.

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>Course</th>
<th>Credits / ECTS Credits</th>
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<tbody>
<tr>
<td><strong>Autumn Semester</strong></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>GE 100 Orientation</td>
<td>1 / 1</td>
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<tr>
<td>ECON 101 Introduction to Economics I</td>
<td>3 / 6</td>
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<tr>
<td>ENG 101 English and Composition I</td>
<td>3 / 6</td>
</tr>
<tr>
<td>SOC 101 Introduction to Sociology</td>
<td>3 / 5</td>
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<tr>
<td>TURK 101 Turkish I</td>
<td>2 / 1</td>
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<tr>
<td>HCIV 101 History of Civilization I</td>
<td>3 / 6</td>
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<tr>
<td><strong>Spring Semester</strong></td>
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<tr>
<td>POLS 104 Introduction to Political Science II</td>
<td>3 / 6</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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</tbody>
</table>
PSYC 102  Introduction to Social Psychology ................................................. 3 / 5
TURK 102  Turkish II ...................................................................................... 2 / 1
HCIV 102  History of Civilization II ............................................................... 3 / 6

SECOND YEAR

Autumn Semester          Credits / ECTS Credits
POLS 201  Fundamentals of Social Research ................................................. 3 / 6
POLS 231  Introduction to Law ....................................................................... 3 / 6
PHIL 241  Social and Political Philosophy I ..................................................... 3 / 6
ENG 241  Sophomore Academic English I ......................................................... 3 / 5
HIST 201  History of Turkish Republic I ......................................................... 2 / 1
Elective (1) ................................................................................................. 3 / 6

Spring Semester           Credits / ECTS Credits
POLS 232  Turkish Public Law ......................................................................... 3 / 6
MATH 264  Statistics for Social Sciences ....................................................... 3 / 6
PHIL 242  Social and Political Philosophy II ................................................... 3 / 6
ENG 242  Sophomore Academic English II ....................................................... 3 / 5
HIST 202  History of Turkish Republic II ....................................................... 2 / 1
Elective (1) ................................................................................................. 3 / 6

Elective courses must be taken from the departmental offerings. A sophomore is allowed to choose an elective course only at the 200 level.

THIRD YEAR

Autumn Semester          Credits / ECTS Credits
POLS 303  Comparative Politics I ................................................................. 3 / 6
POLS 305  Turkish Political Development .................................................... 3 / 6
CS 121   Introduction to Computing for Social Sciences ............................... 3 / 6
Electives (2) .............................................................................................. 6 / 12

Spring Semester           Credits / ECTS Credits
POLS 304  Comparative Politics II ............................................................... 3 / 6
POLS 306  Contemporary Turkish Politics ..................................................... 3 / 6
POLS 324  Research Methods .................................................................... 3 / 6
Electives (2) .............................................................................................. 6 / 12

At least two of the elective courses must be chosen from amongst the departmental offerings. All other elective courses must be chosen either from amongst the departmental offerings or from amongst the courses that are offered and open to POLS students by the Departments of International Relations, Economics, History, and Management. A junior is allowed to choose an elective course only at the 300 level.

FOURTH YEAR

Autumn Semester          Credits / ECTS Credits
POLS 455  World Politics I ................................................................. 3 / 6
Electives (4) .............................................................................................. 12 / 24

Spring Semester           Credits / ECTS Credits
POLS 476  World Politics II ................................................................. 3 / 6
Electives (4) .............................................................................................. 12 / 24

At least four of the elective courses must be chosen from amongst the departmental offerings. Other elective courses must be chosen from amongst the courses that are offered and open to POLS students by the Departments of International Relations, Economics, History, and Management. A senior is allowed to choose an elective course only at the 400 level.

Language courses satisfy elective requirements for the third and fourth year electives, but only one language course per semester is allowed.
GRADUATE PROGRAM

Doctor of Philosophy in Political Science

The Doctor of Philosophy Program in Political Science is designed to provide candidates with a depth of knowledge in their respective areas of study and help them to gain a high level conceptual and analytical capability in their subject. The candidate is expected to write a dissertation which would be a contribution to theory in Political Science. Refer to the “Graduate Admissions” section in the introduction of this catalog for the general graduate admission requirements.

The candidates must complete no fewer than 24 credit hours. All courses need to be approved by the Department.

CURRICULUM

FIRST YEAR

<table>
<thead>
<tr>
<th>Semester</th>
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<tbody>
<tr>
<td>Autumn</td>
<td></td>
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<tr>
<td>POLS 601</td>
<td>Turkish Politics: An Overview 3 / 6</td>
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<tr>
<td>POLS 603</td>
<td>Advanced Academic English 3 / 6</td>
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<tr>
<td>POLS 605</td>
<td>The Public Sphere 3 / 6</td>
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<td>POLS 607</td>
<td>Configuration of Political Theory Today 3 / 6</td>
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<td>POLS 629</td>
<td>Turkey in Its Muslim Environment 3 / 6</td>
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<tr>
<td>Spring</td>
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<tr>
<td>POLS 602</td>
<td>Comparative Politics: An Overview 3 / 6</td>
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<td>POLS 604</td>
<td>Democratization Process in Turkey 3 / 6</td>
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<td>POLS 606</td>
<td>Seminar in Political Theory 3 / 6</td>
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<tr>
<td>POLS 608</td>
<td>Politics, Culture, Nation and Gender 3 / 6</td>
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<tr>
<td>POLS 610</td>
<td>Research Methods 3 / 6</td>
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SECOND YEAR

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<th>Semester</th>
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<tr>
<td>Autumn</td>
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<tr>
<td>POLS 611</td>
<td>Political Theory: An Overview 3 / 8</td>
</tr>
<tr>
<td>POLS 613</td>
<td>Seminar in Turkish Politics 3 / 8</td>
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<tr>
<td>POLS 615</td>
<td>Comparative Democratization 3 / 7</td>
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<tr>
<td>POLS 627</td>
<td>Cultural Diversity Cosmopolitanism and Europe 3 / 7</td>
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<tr>
<td>Spring</td>
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</tr>
<tr>
<td>POLS 612</td>
<td>Social and Cultural Studies: An Overview 3 / 8</td>
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<tr>
<td>POLS 614</td>
<td>Politics of Nationalism and Ethnicity 3 / 8</td>
</tr>
<tr>
<td>POLS 616</td>
<td>Political Cultures in the Middle East 3 / 7</td>
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<tr>
<td>POLS 618</td>
<td>Hegel’s Philosophy of Right 3 / 7</td>
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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 (I. Aytürk, Ç. Diner, B. İnce, Z. Tandoğan)

POLS 102  Introduction to Law

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. Spr (A. Aytürk, B. İnce, Ü. Sevgilier, Z. Tandoğan)

**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 (A. Erdentüg, A. Eren)

**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. Spr (A. Kurtoğlu)

**POLS 225 Culture and Change in Turkey**
It provides the basic essentials required for understanding culture change. It examines the various issues and aspects of change, particularly directed or planned change, as it occurs within multicultural settings or as a state-policy. Topics covered, with case studies from Turkey, include culture and subcultures; innovation; acculturation; diffusion; voluntary and directed change; change agents; culture change strategies and dynamics of change. Credit units: 3 ECTS Credit Units: 6. Spr (A. Kurtoğlu)

**POLS 229 Turkish Political History I**
This course is a survey of Turkish political history from its late Ottoman roots, until the Democrat Party rule (1940-1950), focusing on an analysis of political and social institutions with an emphasis on continuity and change. 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 from the Democrat Party rule (1940-1950) until current affairs in Turkish politics, focusing on an analysis of political and social institutions with an emphasis on continuity and change. Credit units: 3 ECTS Credit Units: 6. Spr (B. Burçak)

**POLS 231 Introduction to Law**

**POLS 232 Turkish Public Law**
The idea of constitutional law, constitutionalism, and the constitutional system in Turkey. General characteristics of Turkish administrative law. Administrative power and judicial control of public administration. Credit units: 3 ECTS Credit Units: 6. Spr (O. Çopur, T. Katatlı)

**POLS 233 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. Aut (D. Cindoruk)

**POLS 234 Religion and Politics in the Arab World**
An account of importance in the modern Middle East from the colonial/imperial period to the present time. Special attention will be paid to the role of the tarikats in the resistance to imperialism; the rise of the Muslim brotherhood in the Post-1918 period; the relationship between religion and state; and the resurgence of Islamist movements in the contemporary period. Credit units: 3 ECTS Credit Units: 6. Aut (D. Salt)

**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 (A. Cirakman, A. Paskevičiute, H. Shambayati)

**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. Spr (I. Aytürk, H. Shambayati)

**POLS 305 Turkish Political Development**
The development of the political systems from the Ottoman period to the present with special emphasis on the multi-party period. Credit units: 3 ECTS Credit Units: 6. Aut (Ü. Cizre, Ö. F. Gençkaya, A. Güney)

**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. Spr (Ü. Cizre, Ö. F. Gençkaya, M. Hepar)
POLS 309 Turkish Political Thought I
This course is a survey of political trends in Ottoman-Turkish history. The course will concentrate on the late Ottoman period until the establishment of the Turkish Republic, focusing on an analysis of political ideas with an emphasis on continuity and change. **Credit units: 3 ECTS Credit Units:** . **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 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. Erdentü, A. Eren, Z. Tandogan)**

POLS 325 Transnational Cultures
The course aims to provide an anthropological perspective to the issue of transnationalism. Contemporary transnational experience challenges the culturalist approach to cross-cultural human contact, as well as, the conventional usage of the term “culture”, and brings forth a new understanding of a very old phenomenon, people in motion. **Credit units: 3 ECTS Credit Units: 6.** **Spr (Z. Tandogan)**

POLS 327 State and Society in the Mediterranean
The European Union’s enlargement will include the Mediterranean countries in the near future. However, the Mediterranean countries, due to their multi-ethnic and multi-religious character, have faced some problems regarding state-society relations that culminated in the separatist demands or ethnic conflicts that threatened the national unity and integrity of the “nation-states”. The threat of nation-state fragmentation is both a factor of instability and a potential obstacle on future cooperation in the Mediterranean. The main objective of this course is to analyze in a systematic manner the historical and contemporary factors behind these ethnic conflicts and separatist tendencies that threaten the unity and integrity of the nation-states in the Mediterranean region. The course will consist of two main parts. The first part, the general framework of analysis, the geographic definition of Mediterranean and the theoretical approaches to national integration and fragmentation will be laid down. The second part, will cover the case studies from Mediterranean countries; Italy, Spain, Yugoslavia, Cyprus and Israel. **Credit units: 3 ECTS Credit Units:** .

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:** . **Aut (L. Yanik)**

POLS 330 European Society and Culture
The course aims to provide a framework for understanding the social and cultural settings that lead to or are created by political decisions and economics policies. It covers European countries, including partially Eastern Europe, with a focus on the EU member countries. Topics covered are the human geography and the area with a brief historical background; citizenship, cultural identities, minorities and racism; employment, unemployment, social welfare, health and housing; gender issues and the family; social class, social behavior and attitudes. **Credit units: 3 ECTS Credit Units: 6.** **Spr (A. Erdentü)**

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:** . **Aut (I. Ayturk)**

POLS 333 Turkish Political Thought II
This course is a survey of political trends in modern Turkish History. The course starts with the Kemalist Republic and its ideology and ends with current political ideas in modern Turkey with an emphasis on continuity and change. **Credit units: 3 ECTS Credit Units:** . **Spr (B. Burçak)**

POLS 338 Cosmopolis: From the Roman to the Ottoman and British Empires
This course will offer an unusual consecptus 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: . Spr (J. Alexander)

**POLS 341**  
State Freedom and Sovereignty  
The course will examine various views which consider the concept of the modern state, with its connection to the ideas of freedom and sovereignty and with the relationship between an individual citizen and the state. The course will aim to develop the ability to conduct independent research based on an analysis of both primary and secondary sources. Credit units: 3 ECTS Credit Units: . Aut (J. Alexander)

**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: . Aut (M. N. Karakayalı)

**POLS 345**  
Political Parties and Voting Behavior in Democracies  
This course is designed to introduce students to research on the electoral process in established and new democracies. Consequently the course will focus on political parties, party systems, and citizen voting behavior, and how they influence each other in democratic elections. The course will also take into account the role of electoral systems, social cleavages, political issues, the media, and the economy in the electoral process of contemporary democracies. Credit units: 3 ECTS Credit Units: 6. Aut (A. Paskeviciute)

**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. Spr (Ö. F. Gençkaya)

**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.

**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. Aut (M. N. Karakayalı)

**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. Aut (B. Helvacıoğlu)

**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. Aut (A. Türkün)

**POLS 429**  
History of the Ottoman Empire 1808-1918  
This course deals with the political, economic and social structure of late Ottoman empire. It investigates different ways in which the state-society relations were regulated in Ottoman Empire. Credit units: 3 ECTS Credit Units: 6. Aut (S. Shaw)

**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. Çinar)

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 439 American Government
This course will introduce the student to the American Constitution, and the major institutions of American government: the Presidency, Congress, Judiciary, and bureaucratic structures. Each branch of government will be considered individually, in terms of its composition, and in terms of its relations with the other branches. In each case, a brief historical background will precede a more contemporary focus. Credit units: 3 ECTS Credit Units:

POLS 443 Turkish Government
This course provides a general introduction to the basic principles and operation of the government in Turkey. The major themes will be on centralization, decentralization, the Turkish administrative system and its development, the organization and functions of the central government, local authorities in the Turkish administrative system, local elections, control over local authorities and types of local authorities. Credit units: 3 ECTS Credit Units: . Aut (Ö. F. Gençkaya)

POLS 450 Globalization and Political Space
The course aims to explore the economic, political and cultural aspects of globalization together with the spatial implications on the world space. The topics of globalization/localization, dismantling of nation-state territories and regulations as well as new spaces of globalization and inclusion/exclusion mechanisms of the new era will be discussed. There will be a special emphasis on changing economic and political priorities and policies at the global level, especially after 1980s, changing power relationships among different interest groups and spatial repercussions at the international, national and local scales. Credit units: 3 ECTS Credit Units: 6. Spr (A. Türkn)

POLS 452 State Society and Citizenship in Turkey
The recent decades have witnessed the revival of the interest on citizenship issues worldwide. This course 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. Spr (A.Türkn)

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: . Aut (J. Salt)

POLS 455 World Politics I
The course aims at analysing the basic dynamics behind the evolution of the international 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 (A. Güney, L. Yanık)

POLS 458 Nationalism and Citizenship in Comparative Perspective
Politics is not only about formal governance and the state but also about the nation and its formation. This course takes the nation as its locus of study and investigates different dimensions of the making of nations and issues of national belonging (citizenship) in a global context. The readings have been structured so as to explore the complexity of nation-building processes and issues of national belonging, i.e. citizenship. They address the ways in which national identities are constructed along different constitutive elements, such as race, ethnicity, gender, class, religion or colonial relations, as one or several of these elements converge in setting the parameters of national belonging in different contexts. The course will simultaneously explore different mediums of representation in the creation of nations and norms of citizenship, ranging from popular music, novels, architecture, art, films and mass media to clothing, food and other daily practices. The course and
assignments are also designed to assist students in developing their reading, critical analysis and writing skills.

Credit units: 3 ECTS

POLS 466 Issues in Political Theory
This course is motivated by a nagging sense that the gendered character of politics is more complicated than it appears. It aims to conceptualize the inherent contradictions in such gendered categories as masculinity and femininity by examining the relationship between sex, gender, body and the politics of race, class and nationalism.

Credit units: 3 ECTS

POLS 468 American Politics
This course will focus on various political processes of the American system. Such processes as political socialization, party choice and affiliation, voting behavior, lobbying, political protest, election campaigns, among others, will be examined. Continuing problems and debates in American society (lack of participation, racial issues, poverty, etc.) will also be considered in terms of the political or constitutional challenges they pose.

Credit units: 3 ECTS

POLS 470 European Political Thought II
This course provides a thematic overview of the evolution of European political ideas and institutions from the post-Enlightenment period to the present, addressing the issues of justice, power, legitimacy, democracy, progress, public and private, state and civil society in basic texts.

Credit units: 3 ECTS

POLS 472 Science, Society and Technology
Social and political consequences of scientific and technological developments in the second half of the twentieth century. Topics include new information and communication technologies, the concept of “virtual reality” and controversies about genetic engineering.

Credit units: 3 ECTS

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

POLS 474 Seminar in Turkish Politics
This course aims to examine the Turkish political system within a comparative framework, notably that of the structures and ideological traditions of democratic government in Western Europe and North America. After an introductory survey of the legacy of the Kemalist revolution for Turkey's post-war political experiences, the course begins with an examination of the constitution, and its influence on the political system in general. This is followed by consideration of the main ideological currents in Turkish politics (conservatism, nationalism, secularism/Islamism, socialism) and ethnic and other identity questions. Structural issues addressed are the pressure groups, political participation and the electoral system, and the political roles of pressure groups, political parties, and the military. Each section will begin with an introduction by the convenor. In the following section, assigned members of the class will be asked to give short presentations on the topics scheduled. This will be followed by a general class discussion.

Credit units: 3 ECTS

POLS 476 World Politics II
The course is designed to address the basic issues of world politics 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 politics.

Credit units: 6

POLS 481 Ethnic Conflict in the post-Communist World
This course focuses on the phenomenon of ethnic conflict. Students will become familiar with theories of nationalism, ethnicity, and intrastate ethnic conflict. A comparative analysis will be drawn from case studies of ethnic conflict in Eastern Europe, the former Soviet Union, and Southeast Asia following the demise of communism.

Credit units: 3 ECTS

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

POLS 485 Seminar in Comparative Politics
The course starts by examining the rationale for conducting comparative studies of political systems. The main body of the course considers the functions of constitutions, and the roles of (a) the main institutions of modern states (legislatures, leaders and executives, the judiciary, state bureaucracies) and (b) non-state actors (political parties and party systems, pressure groups, the mass media, and the military). Broader issues considered include such concepts as leadership, the rule of law, theories of representation and corporatism. Each section will begin with an introduction by the convenor. In the following section, assigned members of the class will be
asked to give short presentations on the topics scheduled. This will be followed by a general class discussion.  

**POLS 487  Politics of International Migration**  
The aim of the course is to give an overall view about the aspects of the international migration in international relations. The topics to deal with 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 489  European Union: Institutional Aspects**  
In the first half of the course the students will have the opportunity to understand how and why the EU established and through which periods it has gone until today. In the second half of the course the structure of the EU institutions, how they work and the relationship between them will be examined. **Credit units: 3 ECTS Credit Units: **  

**GRADUATE COURSES**

**POLS 601  Turkish Politics: An Overview**  
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.**  

**POLS 602  Comparative Politics: An Overview**  
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.**  

**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.**  

**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.**  

**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.**  

**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. Irigarary 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.**  

**POLS 607  Configuration of Political Theory Today**  
This course is designed to address multiple challenges world politics faces after September 11, 2001. It aims to utilize a diverse range of theories, methodologies and modes of thinking of politics. Throughout the whole term the main focus is on only one concept-power. We will examine classical and contemporary texts on different conceptualizations and dimensions of power, e.g. state power, power of the markets, power of terror. We will also examine freedom, equality, representation, participation, gender and citizenship in relations to power. The format of the course is lecture in half and student presentation in half. **Credit units: 3 ECTS Credit Units: 6.**
POL 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 simultaneously explore different mediums of representation 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. Spr (A. Çınar)

POL 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: 6. Spr (D. Cindoğlu)

POL 611  Political Theory: An Overview
This course is designed to provide a general outlook and understanding on the main issues of modern political thought, starting form Renaissance and ending with the turn of 20th century. The course aims to introduce students to the changing variety of views on human nature, society, politics and morality throughout the modern era. Credit units: 3 ECTS Credit Units: 8. Aut (A. Çırağan)

POL 612  Social and Cultural Studies: An Overview
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. Spr (M. N. Karakayalı)

POL 613  Seminar in Turkish Politics
This seminar course aims at enhancing our critical understanding of how the establishment and evolution of the founding principles, philosophy, dynamics and institutions of Turkish republic have been studied by prominent native and international analysts of the time, beginning from the inception of the republic until the introduction of the multi-party process. This it will do so in terms of critically identifying, examining and comparing/contrasting different theoretical perspectives and methodologies deployed by different schools of thought/models/paradigms for analyzing the Turkish political process. The contextual and textual frames of reference throughout will be the world conjuncture and domestic politics. Credit units: 3 ECTS Credit Units: 8. Aut(çı, Cıralı)

POL 614  Politics of Nationalism and Ethnicity
Historical origins, defining characteristics, enduring power, morality and typologies of nationalism. "New" nationalism(s). The pull and push of ethnic politics vis-à-vis integrationism of the modern nation-state. Credit units: 3 ECTS Credit Units: 8. Spr (O. Cıralı)

POL 615  Comparative Democratization
This seminar examines the theoretical and practical implications of the recent attempts at democratization. It will focus on various topics such as transitions from authoritarianism, the constructions of the democratic state, problems of accountability, etc. Credit units: 3 ECTS Credit Units: 7. Aut (H. Shamshati)

POL 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. Spr (J. Salt)

POL 618  Hegel's Philosophy of Right
This course will take the form of a close study of one of the most important modern works of political thought, Hegel's Philosophy of Right. It will involve the relation of Hegel's political thought to his philosophy as a whole, the identification of his political and philosophical concerns in the early nineteenth century, and will consider the possibility of theorising our later modernity in terms of his political thought. The aim will be for everyone who takes the course to have read the whole work, including its additons and appendices, by the end of the term and also to have studied a reasonable amount of Hegel commentary including the critiques of Hegel's thought found in writers such as Schopenhauer, Marx and Kierkegaard. Credit units: 3 ECTS Credit Units: 7. Spr (J. Alexander)

POL 619  Reading and Research in Turkish Politics I
This course will be conducted as a tutorial. The student and the relevant faculty member will meet as a regular basis. The student will write a major research paper. Credit units: 3 ECTS Credit Units: 6. Aut (Staff)
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<td>POLS 620</td>
<td>Reading and Research in Turkish Politics II</td>
<td>This course will be conducted as a tutorial. The student and the relevant faculty member will meet as a regular basis. The student will write a major research paper.</td>
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<tr>
<td>POLS 621</td>
<td>Reading and Research in Comparative Politics I</td>
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<td>POLS 622</td>
<td>Reading and Research in Comparative Politics II</td>
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<tr>
<td>POLS 623</td>
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<tr>
<td>POLS 624</td>
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<td>This course will be conducted as a tutorial. The student and the relevant faculty member will meet as a regular basis. The student will write a major research paper.</td>
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<td>POLS 625</td>
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<td>This course will be conducted as a tutorial. The student and the relevant faculty member will meet as a regular basis. The student will write a major research paper.</td>
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<td>POLS 626</td>
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<tr>
<td>POLS 627</td>
<td>Cultural Diversity Cosmopolitanism and Europe</td>
<td>Various cosmopolitanisms and different forms of cultural diversity will be explored through a reading of anthropological and philosophical texts on the issues of immigration, interculturalism and multiculturalism with the geographic focus on Europe. The overall objective of the course is to give students a critical understanding of social science concepts such as culture, race, and ethnic group, and to discuss culturalist, essentialist, fluid and dynamic conceptualizations of cultural diversity in the light of different cosmopolitan experiences, perspectives and education.</td>
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<tr>
<td>POLS 629</td>
<td>Turkey in Its Muslim Environment</td>
<td>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.</td>
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<td>POLS 699</td>
<td>Ph.D. Dissertation</td>
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DEPARTMENT OF POLITICAL SCIENCE 153
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

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<tr>
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### PSYC 340 Learning, Remembering, and Thinking

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### PSYC 301 Advanced Statistics and Research Methods

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### PSYC 420 Selected Topics in Cognitive Psychology

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### PSYC 350 Cognitive and Social Development

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### PSYC 320 Cognitive Neuroscience

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### PSYC 370 Conceptual Issues and Current Directions in Psychology

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### FOURTH YEAR

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#### Spring Semester

<table>
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<tr>
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<tbody>
<tr>
<td>PSYC 402</td>
<td>Senior Thesis II</td>
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<tr>
<td>Departmental Electives (2)</td>
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### DEPARTMENTAL ELECTIVES

Departmental Electives will be chosen from the two groups of courses below. At least two courses must be chosen from **Group 1**.

#### Group 1

<table>
<thead>
<tr>
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<tr>
<td>PSYC 410</td>
<td>Neuropsychology</td>
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<tr>
<td>PSYC 420</td>
<td>Selected Topics in Cognitive Psychology</td>
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<td>PSYC 421</td>
<td>Selected Topics in Social Psychology</td>
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<td>PSYC 422</td>
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#### Group 2

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<tr>
<td>PSYC 430</td>
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<tr>
<td>PSYC 431</td>
<td>Psychometrics</td>
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<td>PSYC 433</td>
<td>Abnormal Psychology</td>
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<tr>
<td>PSYC 440</td>
<td>Cross-cultural Psychology</td>
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</table>
RESTRICTED ELECTIVES

CS 122 Introduction to Programming for Social Sciences .......................... 3 / 5
HART 120 Human Evolution and World Prehistory .................................. 3 / 6
PHIL 241 Social and Political Philosophy I .............................................. 3 / 6
PHIL 242 Social and Political Philosophy II ............................................ 3 / 6
PHIL 304 Philosophy of Science ............................................................... 3 / 6
PHIL 308 Philosophy of Mind ................................................................. 3 / 6

UNRESTRICTED ELECTIVES

At least one of the unrestricted electives should be chosen from among the Faculty of Art, Design, and Architecture or Faculty of Music and Performing Arts.

COURSE DESCRIPTIONS

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: . Aut (P. J. Lee, E. Özgen) Spr (E. Özgen)

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. Spr (A. Eren, T. E. Erman, N. Fehim-Kennedy, A. Kurtçu, E. Özgen, S. Pınar, A. Türkün)

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: .

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: .

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 miniresearch 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: .

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: .

PSYC 210 Interpersonal Communication
This course focuses on the theoretical background and practice of interpersonal skills for communicating effectively, for establishing and maintaining relationships in one-to-one and group situations. The main objective is the development of self-understanding and self-awareness along with the acquisition of effective communication techniques, to produce a discipline and conscious use of oneself in professional as well as personal relationships. Credit units: 3 ECTS Credit Units: . Spr (S. Pınar)

PSYC 220 Brain and Behaviour
As a basis for all mental activity and behaviour the nervous system and the brain in particular is 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: .
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: .

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: .

PSYC 301  Advanced Statistics and Research Methods
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: .

PSYC 304  Industrial Psychology
This course will integrate the principles, theories and practices of industrial psychology. Topics will include personnel psychology; employee selection; performance appraisal; organizational psychology; morale, motivation and job satisfaction; designing the optimal organizational structure; training, development and productivity in organizations; designing work conditions; engineering psychology and methods dealing with stress at work. Credit units: 3 ECTS Credit Units: .

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: .

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: .

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: .

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: .

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: .

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: .
PSYC 370 Conceptual Issues and Current Directions in Psychology
This course is a look at the historical and current trends in psychological research and thinking. Psychology as a science has shown remarkable developments over the past century or so. From Wundt and James to Skinner, to the cognitive revolution, there have been many arguments, switches of focus and philosophy, as well as a steady progress towards an exact science. It is important to study the journey of psychology in order to understand the research carried out today in a wider context. Credit units: 3 ECTS Credit Units:.

PSYC 390 Traffic Psychology
The objective of this course is to provide students with a general understanding of traffic psychology. Topics include main psychological aspects of driver behaviors and human factor in traffic safety. More specifically, the course covers theories and models in traffic psychology. The psychological reasons of violations of traffic rules and errors will be determined. Driver's thoughts, feelings, beliefs and actions while driving will be discussed. Furthermore, risk compensation processes and rescue in traffic will be examined. Credit units: 3 ECTS Credit Units:.

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:.

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:.

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: None ECTS Credit Units:.

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: None ECTS Credit Units:.

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: None ECTS Credit Units:.

PSYC 422 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: None ECTS Credit Units:.

PSYC 430 Health and 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 application 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: None ECTS Credit Units:.
PSYC 431  Psychometrics
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: None ECTS Credit Units:.

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: None ECTS Credit Units:

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: None ECTS Credit Units:

PSYC 440  Cross-cultural Psychology
Psychology has recently been interested to see if psychological principles discovered through scientific methods apply to different cultures differently. We are discovering every passing day that different cultures have different ways of dealing with life, different psychological reactions, and possibly even different cognitive structures. The study of cross-cultural psychology aims to discover these differences in order to gain a better understanding of what makes us the way we are. It tells us a lot about ourselves to discover that our culture influences us to such an extent that even our mental capacities are affected. Credit units: None ECTS Credit Units:
The Faculty of Education, in conjunction with the Graduate School of Education offers:

- A five year combined undergraduate and MA program in Computer and Instructional Technologies Teacher Education
- A five year combined undergraduate and MA program in English Teacher Education
- MA in Teacher Education
- MA in Teaching English as a Foreign Language (TEFL)
- MA in Management in Education

In addition, sports courses are offered through the Faculty's Physical Education Unit.

**ACADEMIC STAFF**

**Necmi Aksit**, Instructor  
Ph.D., Educational Sciences, Middle East Technical University, 1998.

**Tijen Aksit**, Instructor  
M.A., English Language Teaching, Middle East Technical University, 1996.

**ErolArkun**, Professor  

**Armağan Ateşkan**, Instructor  

**Reyyan Ayfer**, Instructor  
M.S., Computer Engineering, Middle East Technical University, 1981. Database management, programming languages, data structures.

**Charlotte Basham**, Visiting Associate Professor  
Ph.D., University of Michigan, 1986. Second Language acquisition, cross-cultural communication, linguistics, language teaching methodologies.

**Cynthia Crippin**, Adjunct Instructor  

**M. Hamit Çalışkan**, Assistant Professor  

**David Davenport**, Assistant Professor  
Ph.D., Electrical Engineering, University of Birmingham, 1980. Artificial intelligence, cognitive science, information retrieval, computer and education, Internet-related issues.

**Johannes Eckerth**, Assistant Professor  

**Erdal Erel**, Professor  
Ph.D., Industrial Engineering and Operations Research, Virginia Polytechnic Institute and State University, 1987. Production control and planning, scheduling, design of manufacturing systems.

**Rüçhan Kayalar**, Instructor  
Valerie Kennedy, Assistant Professor  

Seyit Koçberber, Assistant Professor  
Ph.D., Computer Engineering and Information Science, Bilkent University, 1996. Information retrieval, Database systems.

Gül Kurtuluş, Instructor  
Ph.D., English Literature, Bilkent University, 1997. Modern English drama, 16th and 17th century English drama, English history, literary theory and criticism.

Erhan Kükner, Instructor  

Anthony Lake, Instructor  
Ph.D., English Literature, University of Sussex, 1996. Victorian literature, travel writing, romanticism, literature and naturalism, literary theory.

Miles Lovelace, Visiting Professor  
Ed.D., Administration, Planning and Social Policies, Harvard University, 1987. Teacher education, adult education, educational administration, planning and policies, international education, research methods in education, educational psychology.

Livingston T. Merchant, Senior Lecturer  
Ph.D., Asian History, Brown University, 1983. Curriculum studies, social studies education, teacher education, professional development, school partnerships, technology in the curriculum, special education.

John O’Dwyer, Instructor  

Halil Özmen, Instructor  
M.S., Computer Engineering, Middle East Technical University, 1981. Data structures, algorithms, computer architecture, web based software development.

Murat Özsoy, Instructor  
M.S., Computer Science and Technology, Linkoping Institute of Technology, Sweden, 1986. Introduction to computers, computer applications for business.

Mine Özyurt Kılıç, Instructor  
M.A., English Language and Literature, Bilkent University, 1994.

Rasim Özyürek, Instructor  
Ph.D., Turkish Language Teaching, Baku State University, 1998.

Simon Phipps, Instructor  

Donald Bruce Randall, Associate Professor  

Margaret K. Sands, Visiting Professor  

Engin Sezer, Visiting Associate Professor  
Ph.D., Linguistics, Harvard University, 1991. Turkish and Turkic linguistics, old Turkish literature.

Aysin Solak-Örkcüoğlu, Instructor  
M.S., Computer Engineering and Information Science, Bilkent University, 1991. Problem solving and algorithms, programming languages, natural language processing.
İpek Sözen, Instructor  
M.S., Computer Engineering, Middle East Technical University, 1989. Programming languages, data structures, information systems.  

Semâ Taşkin, Instructor  
Ph.D., English Literature, Hacettepe University, 1999. 20th century poetry, romantic poetry, victorian literature.  

Elif Uzel Şen, Instructor  
Ph.D., English Language Teaching, Middle East Technical University, 2002.  

Hülya Yavuz, Assistant Professor  
Ph.D., Educational Sciences, Middle East Technical University, 1991. Computer aided education, curriculum development, mathematics education.  

Füsun Yürütten, Instructor  
M.S., Computer Engineering, Middle East Technical University, 1993. Database management systems, object oriented system analysis and design, spatial indexing methods, systems development.  

PART-TIME ACADEMIC STAFF  

Mesut Duran, Ph.D., Curriculum and instructional technologies, University of Michigan, 2000.  
Aykut İnan İşeri, Ph.D., Secondary Science and Mathematics Education, Middle East Technical University, 2002.  
MA PROGRAM IN COMPUTER AND INSTRUCTIONAL TECHNOLOGIES TEACHER EDUCATION

S. Koçberber (Chair), E. Arkun, R. Ayfer, D. Davenport, H. Özmen, M. Özsoy, A. Solak-Örkçüoğlu, İ. Sözen, H. Yavuz, F. Yürütan.

This is a five-year combined undergraduate and graduate program, which leads to a Masters diploma in computer and instructional technology teacher education.

The masters-without-thesis program, which follows the undergraduate program, is taken in the Graduate School of Education. It gives not only a Masters diploma but also qualified teacher status. It is designed to prepare well-qualified teachers for high schools in Turkey. It develops the skills and expertise required from teachers in modern classrooms. Students spend one day a week in partner schools, gaining practical experience of up-to-date approaches to teaching, followed by a block practice in a third school.

The practical approach to the development of professional teachers is fully supported by the teacher education courses which emphasize student participation in problem solving, case studies, and developmental work.

UNDERGRADUATE CURRICULUM

FIRST YEAR

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<tr>
<th>Autumn Semester</th>
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<tr>
<td>CTE 101</td>
<td>Introduction to Programming I</td>
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<tr>
<td>CTE 103</td>
<td>Information Technologies in Education I</td>
</tr>
<tr>
<td>CTE 105</td>
<td>Discrete Mathematics</td>
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<td>GE 100</td>
<td>Orientation</td>
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<tr>
<td>ENG 101</td>
<td>English and Composition I</td>
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<tr>
<td>HIST 201</td>
<td>History of Turkish Republic I</td>
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<td>TURK 101</td>
<td>Turkish I</td>
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<tr>
<td>CTE 102</td>
<td>Introduction to Programming II</td>
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<td>Information Technologies in Education II</td>
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<tr>
<td>MATH 105</td>
<td>Introduction to Calculus I</td>
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SECOND YEAR

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<td>CTE 201</td>
<td>Programming Languages I</td>
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<tr>
<td>CTE 203</td>
<td>Data Structures</td>
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<td>CTE 205</td>
<td>Computer Organization</td>
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<td>PHYS 101</td>
<td>General Physics I</td>
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<td>HCIV 101</td>
<td>History of Civilization I</td>
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<tr>
<td>CTE 202</td>
<td>Programming Languages II</td>
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<tr>
<td>CTE 204</td>
<td>Introduction to Database Management Systems</td>
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<tr>
<td>CTE 206</td>
<td>Problem Solving Tools</td>
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<td>PHYS 102</td>
<td>General Physics II</td>
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<td>History of Civilization II</td>
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THIRD YEAR

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<tr>
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<tr>
<td>CTE 303</td>
<td>Operating Systems</td>
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<td>CTE 305</td>
<td>Systems Analysis and Design</td>
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<tr>
<td>CHEM 101</td>
<td>Principles of Chemistry I</td>
</tr>
<tr>
<td>PHIL 241</td>
<td>Social and Political Philosophy I</td>
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**Spring Semester**

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<tbody>
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<td>CTE 302</td>
<td>Internet Applications in Education</td>
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<tr>
<td>CTE 304</td>
<td>Database Management Systems</td>
<td>3 / 6</td>
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<tr>
<td>CTE 310</td>
<td>Term Project</td>
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<tr>
<td>CHEM 102</td>
<td>Principles of Chemistry II</td>
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<tr>
<td>MBG 110</td>
<td>Introduction to Modern Biology</td>
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<td>PHIL 242</td>
<td>Social and Political Philosophy II</td>
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**Autumn Semester**

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<tr>
<td>CTE 401</td>
<td>Multimedia Techniques</td>
<td>2 / 6</td>
</tr>
<tr>
<td>CTE 403</td>
<td>Statistics and Probability for Teachers</td>
<td>3 / 6</td>
</tr>
<tr>
<td>CTE 405</td>
<td>Information Ethics and Security</td>
<td>3 / 6</td>
</tr>
<tr>
<td>CTE 407</td>
<td>Network Structures and Communication</td>
<td>3 / 6</td>
</tr>
<tr>
<td>CTE 409</td>
<td>Programming for Education</td>
<td>3 / 6</td>
</tr>
<tr>
<td>CTE 411</td>
<td>New Trends in Computing</td>
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**Spring Semester**

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<td>TE 501</td>
<td>Introduction to Teaching Profession</td>
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<tr>
<td>TE 502</td>
<td>Development and Learning</td>
<td>3 / 5</td>
</tr>
<tr>
<td>TE 506</td>
<td>Planning and Assessment in Teaching</td>
<td>4 / 6</td>
</tr>
<tr>
<td>TE 513</td>
<td>School Experience I</td>
<td>3 / 6</td>
</tr>
<tr>
<td>TE 516</td>
<td>Special Teaching Methods in English</td>
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**Fifth Year**

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<tbody>
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<td>CTE 501</td>
<td>Fundamentals of Computer Assisted Instruction</td>
<td>3 / 8</td>
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<tr>
<td>TE 503</td>
<td>Classroom Management</td>
<td>3 / 7</td>
</tr>
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<td>Educational Technology and Materials Development</td>
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</tr>
<tr>
<td>TE 514</td>
<td>School Experience II</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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<tbody>
<tr>
<td>CTE 502</td>
<td>Foundations of Distance Education</td>
<td>3 / 5</td>
</tr>
<tr>
<td>CTE 504</td>
<td>Design Development and Evaluation of Educational Software</td>
<td>3 / 6</td>
</tr>
<tr>
<td>CTE 506</td>
<td>Instructional Design</td>
<td>3 / 5</td>
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<tr>
<td>TE 505</td>
<td>Guidance</td>
<td>3 / 6</td>
</tr>
<tr>
<td>TE 515</td>
<td>Teaching Practice</td>
<td>5 / 8</td>
</tr>
</tbody>
</table>

**COURSE DESCRIPTIONS**

**UNDERGRADUATE COURSES**

**CTE 101 Introduction to Programming I**
An introduction to effective problem solving using the computer as a tool. Theoretical principles and phases of problem solving. Basic properties of algorithms. Top down design. Structured programming techniques will be introduced along with the usage of C language. Data representation. Simple arithmetic expressions. Decision and control statements. Credit units: 4 ECTS Credit Units: 8. Aut (Sözen) Spr (F. Yüreğin)

**CTE 102 Introduction to Programming II**

**CTE 103 Information Technologies in Education I**
This course aims to familiarize students with the basic terminology and skills needed to use a computer efficiently. After a brief encounter with the Internet and network skills, the students are exposed to various operating systems and a word processing application. Comprehensive hands-on experience with Windows and UNIX environment will be gained throughout the semester in the lectures held in the computer labs. Creating and working with web
pages will be elaborated by designing simple Internet web sites. Credit units: 3 ECTS Credit Units: 6. Aut (M. Özsoy) Spr (L. Russell-Dağ)

**CTE 104 Information Technologies in Education II**
Spreadsheet and databases applications. Basic skills to prepare presentations. Students work on widely used application packages. Spreadsheets: entering data and formulas, applying charts, functions and macros. Databases: creating database files, working with tables, queries, forms and reports. Credit units: 3 ECTS Credit Units: 6. Prerequisite: CTE 103. Aut (L. Russell-Dağ) Spr (L. Russell-Dağ)

**CTE 105 Discrete Mathematics**

**CTE 201 Programming Languages I**
The concept of object-oriented and event-driven programming. Designing effective GUIs using Visual Basic. Database access, the use of object linking and embedding (OLE) and dynamic data exchange (DDE). Credit units: 4 ECTS Credit Units: 8. Aut (S. Koçberber)

**CTE 202 Programming Languages II**
Visual programming languages. Concepts and principles for visual programming. Analysis, design and implementation methods for visual programming. Applications with various visual programming languages. Credit units: 4 ECTS Credit Units: 8. Prerequisite: CTE 201.

**CTE 203 Data Structures**

**CTE 204 Introduction to Database Management Systems**
Record storage and primary file organization. Index structure for files. Databases and database users. Database system concepts and architecture. Entity-Relationship model. Enhanced E-R Model. Credit units: 3 ECTS Credit Units: 6. Aut (H. Yavuz)

**CTE 205 Computer Organization**

**CTE 206 Problem Solving Tools**
Usage of a technical programming language for solving scientific problems. Variables, scalars, arrays, scalar and array operations, top-down program design, relational and logical operators, branches, loops, syntax, compilation debugging and maintenance, built-in and user defined functions, function arguments, pass-by-value, plotting, handle graphics, graphical user interface. Credit units: 3 ECTS Credit Units: 6.

**CTE 301 Programming for the Internet**
Fundamentals of web-based computing, web clients and hyper text servers, the CGI standard and CGI programming techniques. DHTML, Javascripting techniques will be introduced for web based graphical user interface design. Techniques and tools for interfacing to popular RDBMS servers. Credit units: 4 ECTS Credit Units: 6.

**CTE 302 Internet Applications in Education**
State of the art scripting tools like Perl and PHP will be used in development software for web based application development. Javascripting techniques for advanced web based graphical user interface design. Credit units: 3 ECTS Credit Units: 6.

**CTE 303 Operating Systems**
Overview of widely used operating systems. Operating system functions and characteristics. Using operating systems: monitoring programs; system calls and the programmer interface. Processes, memory management, file systems. Usage of these systems in the education environment. Credit units: 3 ECTS Credit Units: 6.

**CTE 304 Database Management Systems**
DBMS concepts, definitions, specifications and objectives. Relational data model. SQL will be introduced as data manipulation languages. Data base design considerations. An overview of current trends. Applications with a widely-used relational database package. Credit units: 3 ECTS Credit Units: 6.

**CTE 305 Systems Analysis and Design**
Different types of information systems. System development life cycle (SDLC). Preliminary investigation. System analysis (determining and analyzing requirements). System design (output, input, file, database and software

CTE 310 Term Project
Students will be working as small teams under close supervision of a faculty member to develop a software system for educational purposes. Structures and operations on those together with the various methods that were introduced in the previous semesters will be used. Each phase of the project - specification, analysis, design and implementation - will be documented and presented by each team. Credit units: 3 ECTS Credit Units: 4.

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: 2 ECTS Credit Units: 6.

CTE 403 Statistics and Probability for Teachers
Basic concepts of probability, nature of statistical methods, elementary distribution and sampling theory, Estimation and testing hypothesis. Linear regression and analysis of variance. Use of various software systems for statistical analysis of data in education. Credit units: 3 ECTS Credit Units: 6.

CTE 405 Information Ethics and Security
The social impact, implications and effects of computers on society, and the responsibilities of computer professionals in directing the emerging technology. Internet as a communication environment. Internet from the aspect of educational purposes. Awareness about the related social, political and legal issues. Privacy and security. Credit units: 3 ECTS Credit Units: 6.

CTE 407 Network Structures and Communication
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. Hands-on experience with both the usage and setting up a heterogeneous network of machines. 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 411 New Trends in Computing
Research and discussions on topics ranging from social and ethical issues arising from globalization of networks, to trends in hardware, software, communications and peripheral technologies. Credit units: 2 ECTS Credit Units: 4.

GRADUATE COURSES

CTE 501 Fundamentals of Computer Assisted Instruction
The history and development of computer assisted instruction; general formats used in computer assisted instruction: drills and practice programs, tutorials, simulations, educational games, demonstrations and evaluation criteria for these programs. Credit units: 3 ECTS Credit Units: 8.

CTE 502 Foundations of Distance Education
Historical development of distance education, definition and function of distance education, technologies used within distance education: TV, VCR, radio, printed materials, computers, and the Internet. Techniques and methods used in planning, development, and implementation of distance education teaching systems. Credit units: 3 ECTS Credit Units: 5.

CTE 504 Design Development and Evaluation of Educational Software

CTE 506 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: 5.
DEPARTMENT OF ENGLISH TEACHER EDUCATION


This is a five-year combined undergraduate and graduate program, which leads to a Masters diploma in teacher education. It is composed of two consecutive parts. The first seven semesters contain the undergraduate program given by the Department of English Language and Literature. The program helps students to achieve a mature understanding of themselves and the world, through a comprehensive and in-depth survey of major authors, literary works and movements in literature in English. The literature curriculum comprises the analysis and discussion of literary terms and movements, periods of English and American literature, major dramatists, novelists, and poets. Other courses focus on English language, speaking and writing English. The curriculum also includes courses on philosophy and the history of civilization. The whole program emphasizes critical thinking, communication skills and intellectual growth. Students learn to read critically, write clearly, and reason soundly.

The masters-without-thesis program, which follows the undergraduate program, is taken in the Graduate School of Education. It gives not only a Masters diploma but also qualified teacher status. It is designed to prepare well-qualified teachers for high schools in Turkey. It develops the skills and expertise required from teachers in modern classrooms. Students spend one day a week in partner schools, gaining practical experience of up-to-date approaches to teaching, followed by a block practice in a third school. The practical approach to the development of professional teachers is fully supported by the teacher education courses which emphasize student participation in problem solving, case studies, and developmental work.

### UNDERGRADUATE CURRICULUM

#### FIRST YEAR

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<thead>
<tr>
<th>Autumn Semester</th>
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<tbody>
<tr>
<td>GE 100 Orientation</td>
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<tr>
<td>ELIT 113 Reading Skills and Appreciation of Lit. Reading Skills</td>
<td>3 / 6</td>
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<tr>
<td>ELIT 115 Oral Expression Discussion and Presentation</td>
<td>3 / 4</td>
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<tr>
<td>ENG 101 English and Composition I</td>
<td>3 / 6</td>
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<tr>
<td>ENG 117 Advanced English Grammar I</td>
<td>3 / 4</td>
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<tr>
<td>TURK 101 Turkish I</td>
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<tr>
<td>HCIV 101 History of Civilization I</td>
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<tr>
<td>CS 121 Introduction to Computing for Social Sciences</td>
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<tr>
<td>ELIT 114 Critical Reading</td>
<td>3 / 6</td>
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<tr>
<td>ELIT 126 Literature for Young Learners</td>
<td>3 / 5</td>
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<tr>
<td>ENG 102 English and Composition II</td>
<td>3 / 6</td>
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<tr>
<td>ENG 118 Advanced English Grammar II</td>
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<tr>
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<tr>
<td>HCIV 102 History of Civilization II</td>
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#### SECOND YEAR

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<tr>
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<tbody>
<tr>
<td>ETE 201 Introduction to Linguistics</td>
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<tr>
<td>ELIT 211 Translation I</td>
<td>3 / 4</td>
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<tr>
<td>ELIT 215 Oral Expression and Public Speaking</td>
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<tr>
<td>ELIT 283 Short Story I</td>
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<tr>
<td>PHIL 241 Social and Political Philosophy I</td>
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<tr>
<td>ENG 241 Sophomore Academic English I</td>
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<td>HIST 201 History of Turkish Republic I</td>
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<td>ETE 202 Introduction to Linguistics II</td>
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<td>ELIT 212 Translation II</td>
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### THIRD YEAR

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<td>ELIT 284</td>
<td>Short Story II</td>
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<tr>
<td>PHIL 242</td>
<td>Social and Political Philosophy II</td>
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<td>ENG 242</td>
<td>Sophomore Academic English II</td>
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<td>HIST 202</td>
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<td>3 / 6</td>
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<tr>
<td>HUM 111</td>
<td>Cultures Civilizations and Ideas I</td>
<td>3 / 4</td>
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<tr>
<td>ELIT 473</td>
<td>Modern Poetry</td>
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<tr>
<td>AMER 384</td>
<td>American Novel From 1900</td>
<td>3 / 6</td>
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<td>AMER 418</td>
<td>Contemporary American Short Story</td>
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<td>ENG 301</td>
<td>Productive Skills in English II</td>
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### Spring Semester

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<tr>
<td>ELIT 342</td>
<td>Modern Drama</td>
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<tr>
<td>ELIT 362</td>
<td>Modern British Fiction II (1950s to present)</td>
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<tr>
<td>ELIT 431</td>
<td>World Literature</td>
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<td>AMER 383</td>
<td>American Novel to 1900</td>
<td>3 / 6</td>
</tr>
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### UNDERGRADUATE ELECTIVES

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<tr>
<td>ELIT 130</td>
<td>Selections from English Literature (to the Restoration)</td>
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<tr>
<td>ELIT 261</td>
<td>The English Novel I (18th Century)</td>
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<tr>
<td>ELIT 262</td>
<td>The English Novel II (19th Century)</td>
<td>3 / 6</td>
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<tr>
<td>ELIT 355</td>
<td>Major Writers of the Renaissance</td>
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<tr>
<td>ELIT 441</td>
<td>British Drama I (from the Restoration to the 1950s)</td>
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<tr>
<td>ELIT 442</td>
<td>British Drama II (from the 1950s to present)</td>
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</table>
COURSE DESCRIPTIONS

UNDERGRADUATE COURSES

ETE 201 Introduction to Linguistics I
Credit units: 3 ECTS Credit Units: 4. Aut (A. L. Akkas)

ETE 211 Language Acquisition
The course considers, with practical applications, the theories of second language acquisition. There will be analysis and discussion of the research into second language, and application to learning activities and procedures. Credit units: 3 ECTS Credit Units: .

ETE 301 Language Acquisition
The course provides a foundation in linguistics. It emphasises basic terminology and concepts. The main topics include phonetics and phonology, morphology, syntax, semantics, and pragmatics. Students will be asked to consider the relevance of these areas as applied to second language acquisition and foreign language teaching, especially to the teaching of English in Turkey. Credit units: 3 ECTS Credit Units: 4. Aut (GÖzdemir-Ončul)

ETE 302 Introduction to Linguistics II
The course continues the study of phonetics and phonology, morphology, syntax, semantics, and pragmatics begun in Introduction to Linguistics, I, with further applications to second language acquisition and foreign language teaching. Credit units: 3 ECTS Credit Units: .

ETE 401 Language Syllabus Development
This course aims to equip students with the knowledge and skills needed to develop and evaluate a language syllabus. The students will be engaged in needs assessment, writing objectives, and selection, organisation and preparation of learning experiences. Credit units: 3 ECTS Credit Units: 6.

GRADUATE COURSES

ETE 501 Development of Instructional Materials
The course gives an overview of the principles of analysing, adapting, developing and evaluating materials for varied instructional purposes. It also provides many hands-on opportunities for designing materials for secondary and grades 6-8 school students. Participants will be expected to try their materials produced for English language and literature teaching during their Teaching Practice course in schools, and to evaluate and improve them. Credit units: 3 ECTS Credit Units: 6. Spr (N. Akışık)

1 For description of ELIT courses see the Catalog Section for the Department of English Language and Literature
MA PROGRAM IN TEACHER EDUCATION


The MA in teacher education degree is a masters-without-thesis program in five subject areas, biology, English, history, mathematics and Turkish language and literature. The program, which also gives qualified teacher status, is designed to prepare well-qualified teachers for high schools in Turkey, with the potential to make effective contributions to the teaching profession.

The main concern of the program is to develop the skills and expertise required from teachers in the modern classroom. Students spend one or more days a week in partner schools, gaining practical experience of up-to-date approaches to teaching, extended by a block period in a third school.

The practical approach to the development of professional teachers is fully supported by the teacher education courses which emphasize student participation in problem solving, case studies, and developmental work. To broaden subject knowledge of intending teachers, and thus equip them for their future role in a dynamic education system, subject courses in their main area are included. A particular aspect of the program is the international approach to teacher education, especially the inclusion of a period in US schools in the third semester, working alongside American teachers in their classrooms. The US visit is made possible by the generous support of the Fulbright program of the US State Department.

Master of Arts in Teacher Education

CURRICULUM

ENGLISH TEACHING

FIRST YEAR

Autumn Semester

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<th>Course</th>
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<td>TE 501</td>
<td>Introduction to Teaching Profession</td>
<td>3 / 5</td>
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<tr>
<td>TE 531</td>
<td>English Teaching Methods I</td>
<td>3 / 6</td>
</tr>
<tr>
<td>TE 551</td>
<td>School Experience I in English</td>
<td>3 / 6</td>
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<tr>
<td>TEFL 506</td>
<td>Sociolinguistics</td>
<td>3 / -</td>
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<tr>
<td>ELS 401</td>
<td>English Grammar</td>
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Spring Semester

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<tr>
<td>TE 502</td>
<td>Development and Learning</td>
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<tr>
<td>TE 503</td>
<td>Classroom Management</td>
<td>3 / 7</td>
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<tr>
<td>TE 541</td>
<td>English Teaching Methods II</td>
<td>3 / 6</td>
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<tr>
<td>TE 561</td>
<td>School Experience II in English</td>
<td>3 / 7</td>
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<tr>
<td>ELIT 126</td>
<td>Literature for Young Learners</td>
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Summer School

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<td>TE 504</td>
<td>Educational Technology and Materials Development</td>
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<tr>
<td>TE 505</td>
<td>Guidance</td>
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SECOND YEAR

Autumn Semester

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<td>Planning and Assessment in Teaching</td>
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<td>TE 507</td>
<td>Subject Area Textbook Review</td>
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Spring Semester

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<td>TE 571</td>
<td>Teaching Practice in English</td>
<td>3 / 8</td>
</tr>
<tr>
<td>ETE 501</td>
<td>Development of Instructional Materials</td>
<td>3 / 6</td>
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<tr>
<td>ELS 403</td>
<td>English for Philosophy of Education</td>
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## BIOLOGY TEACHING

### FIRST YEAR

**Autumn Semester**  
TE 501 Introduction to Teaching Profession  
TE 532 Biology Teaching Methods I  
TE 552 School Experience I in Biology  
MBG 451 Concepts in Biology I  
BTE 501 Biology Curriculum Review I  

Credits / ECTS Credits  
3 / 5

**Spring Semester**  
TE 502 Development and Learning  
TE 503 Classroom Management  
TE 542 Biology Teaching Methods II  
TE 562 School Experience II in Biology  
BTE 502 Biology Curriculum Review II  

Credits / ECTS Credits  
3 / 6

**Summer School**  
TE 504 Educational Technology and Materials Development  
TE 505 Guidance  

Credits / ECTS Credits  
3 / 6

### SECOND YEAR

**Autumn Semester**  
TE 506 Planning and Assessment in Teaching  
TE 507 Subject Area Textbook Review  

Credits / ECTS Credits  
4 / 6

**Spring Semester**  
TE 521 History of Political and Educational Philosophy  
TE 572 Teaching Practice in Biology  
MBG 452 Practical Biology  
ELS 403 English for Philosophy of Education  

Credits / ECTS Credits  
3 / 8

## TURKISH LANGUAGE AND LITERATURE TEACHING

### FIRST YEAR

**Autumn Semester**  
TE 501 Introduction to Teaching Profession  
TE 533 Turkish Language Teaching Methods  
TE 553 School Experience I in Turkish Lang and Lit  
EDEB 401 Introduction to Turkish Literature I  
EDEB 405 Written Expression  

Credits / ECTS Credits  
3 / 5

**Spring Semester**  
TE 502 Development and Learning  
TE 503 Classroom Management  
TE 543 Turkish Literature Teaching Methods  
TE 563 School Experience II in Turkish Lang and Lit  
ELIT 126 Literature for Young Learners  

Credits / ECTS Credits  
3 / 6

**Summer School**  
TE 504 Educational Technology and Materials Development  
TE 505 Guidance  

Credits / ECTS Credits  
3 / 6

### SECOND YEAR

**Autumn Semester**  
TE 506 Planning and Assessment in Teaching  
TE 507 Subject Area Textbook Review  

Credits / ECTS Credits  
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<td>Teaching Practice in Turkish Lang and Lit</td>
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**HISTORY TEACHING**

**FIRST YEAR**

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<td>History of the Ottoman Empire 1808-1918</td>
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<tr>
<th>Spring Semester</th>
<th>Credits / ECTS Credits</th>
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<tbody>
<tr>
<td>TE 502</td>
<td>Development and Learning</td>
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<tr>
<td>TE 503</td>
<td>Classroom Management</td>
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<tr>
<td>TE 544</td>
<td>History Teaching Methods II</td>
</tr>
<tr>
<td>TE 564</td>
<td>School Experience II in History</td>
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<td>IR 440</td>
<td>Turkish Foreign Policy II</td>
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<tr>
<th>Summer School</th>
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<tbody>
<tr>
<td>TE 504</td>
<td>Educational Technology and Materials Development</td>
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<tr>
<td>TE 505</td>
<td>Guidance</td>
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**SECOND YEAR**

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<tr>
<th>Autumn Semester</th>
<th>Credits / ECTS Credits</th>
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<tbody>
<tr>
<td>TE 506</td>
<td>Planning and Assessment in Teaching</td>
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<tr>
<td>TE 507</td>
<td>Subject Area Textbook Review</td>
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<th>Spring Semester</th>
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<tbody>
<tr>
<td>TE 521</td>
<td>History of Political and Educational Philosophy</td>
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<td>TE 574</td>
<td>Teaching Practice in History</td>
</tr>
<tr>
<td>ELS 403</td>
<td>English for Philosophy of Education</td>
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</table>

**MATHEMATICS TEACHING**

**FIRST YEAR**

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<tbody>
<tr>
<td>TE 501</td>
<td>Introduction to Teaching Profession</td>
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<tr>
<td>TE 535</td>
<td>Mathematics Teaching Methods I</td>
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<tr>
<td>TE 555</td>
<td>School Experience I in Mathematics</td>
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<tr>
<td>MATH 300</td>
<td>A Concise History of Mathematics</td>
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<tr>
<td>MTE 501</td>
<td>Mathematics Curriculum Review I</td>
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<td>TE 503</td>
<td>Classroom Management</td>
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<td>TE 522</td>
<td>Understanding Arguments</td>
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<td>TE 545</td>
<td>Mathematics Teaching Methods II</td>
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<td>TE 565</td>
<td>School Experience II in Mathematics</td>
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<td>MTE 502</td>
<td>Mathematics Curriculum Review II</td>
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SECOND YEAR

Autumn Semester

TE 506 Planning and Assessment in Teaching ............................................. 4 / 6
TE 507 Subject Area Textbook Review .................................................. 3 / 6

Spring Semester

TE 521 History of Political and Educational Philosophy ............................ 3 / -
TE 575 Teaching Practice in Mathematics .............................................. 3 / 8
MTE 503 Computer Technology in Mathematics Education ..................... 3 / -
ELS 403 English for Philosophy of Education ....................................... 3 / -

COURSE DESCRIPTIONS

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. Aut (M. Lovelace)

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. Spr (Staff)

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. Spr (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.

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. Introduction to the field of assessment and testing, theoretical background, and practice in test and item construction. Functions and uses of assessment. Credit units: 4 ECTS Credit Units: 6. Aut (N. Aksüt)

TE 507 Subject Area Textbook Review
Review of Ministry of Education-approved textbooks. Book review in terms of the school curriculum, sequencing, ease of use by students, readability and other criteria. Contribution to the development of student understanding and skills. Credit units: 3 ECTS Credit Units: 6. Aut (A. Ateşkan) Spr (C. Kızılduman-Yazıcı)

TE 511 Special Teaching Methods I
There are separate methodology courses for each subject area. Each course explores, with practical examples, and with reference to current research, the teaching of that subject 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.

TE 512 Special Teaching Methods II
This course is a continuation of TE 511. There are separate methodology courses for each subject area. Each course continues the developmental work of TE 511 in the teaching of that subject. 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.

**TE 513 School Experience I**
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.**

**TE 514 School Experience II**
Students spend one day a week in a school, under the daily supervision of their mentor. Structured activities enable them to concentrate on particular teaching skills, which students practice in class. There is a one-hour seminar which consolidates the work done in school. **Credit units: 3 ECTS Credit Units: 7.**

**TE 515 Teaching Practice**
Students spend two days a week in a school, under the supervision of their school mentor and faculty supervisor. They teach full lessons in their subject area. The course includes a weekly seminar which allows students to share experience and plan their work with their supervisor. **Credit units: 5 ECTS Credit Units: 8. Spr (N. Akşit)**

**TE 516 Special Teaching Methods in English**
This course provides an introduction to the English language teaching profession, its principles, and to some basic classroom techniques. The course explores teaching methods and strategies and their application to a range of teaching and learning contexts. Practical application of the methods will be experienced through microteaching and simulation activities. There will also be extensive reflection on the methods and teaching applications. **Credit units: 3 ECTS Credit Units: 6.**

**TE 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 (J. Cowley) Spr (J. Cowley)**

**TE 522 Understanding Arguments**

**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 (N. Akşit, M. Engin)**

**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 (A. Ateşkan, M. K. Sands)**

**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. Aut (R. Ozyürek)**

**TE 534 History Teaching Methods I**
The course explores, with practical examples, and with reference to current research, the teaching of history 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 (L. T. Merchant)**

**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 (C. Crippin)

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 (N. Aksit, M. Engin)

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. Ateskan, M. K. Sands)

TE 543 Turkish Literature Teaching Methods II
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. Spr (E. Sezer)

TE 544 History Teaching Methods II
This course is a continuation of TE 534. It continues the developmental work of TE 534 in the teaching of history. 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 (Staff)

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. Spr (Staff)

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 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 (N. Aksit)

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 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 (M. K. Sands)

TE 553 School Experience I in Turkish Lang and Lit
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 (R. Özyürek)

TE 554 School Experience I in History
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 (L. T. Merchant)

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 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 (C. Crippin)
**TE 561 School Experience II in English**

Students spend one day a week in a school, under the daily supervision of their mentor. Structured activities enable them to concentrate on particular teaching skills, which students practise in class. There is a one-hour seminar which consolidates the work done in school. **Credit units: 3 ECTS Credit Units: 7, Prerequisite: TE 551. Spr (N. Aksıt)**

**TE 562 School Experience II in Biology**

Students spend one day a week in a school, under the daily supervision of their mentor. Structured activities enable them to concentrate on particular teaching skills, which students practise in class. There is a one-hour seminar which consolidates the work done in school. **Credit units: 3 ECTS Credit Units: 7. Spr (A. Ateşkan)**

**TE 563 School Experience II in Turkish Lang and Lit**

Students spend one day a week in a school, under the daily supervision of their mentor. Structured activities enable them to concentrate on particular teaching skills, which students practise in class. There is a one-hour seminar which consolidates the work done in school. **Credit units: 3 ECTS Credit Units: 7. Spr (Rözyürek)**

**TE 564 School Experience II in History**

Students spend one day a week in a school, under the daily supervision of their mentor. Structured activities enable them to concentrate on particular teaching skills, which students practise in class. There is a one-hour seminar which consolidates the work done in school. **Credit units: 3 ECTS Credit Units: 7. Spr (Staff)**

**TE 565 School Experience II in Mathematics**

Students spend one day a week in a school, under the daily supervision of their mentor. Structured activities enable them to concentrate on particular teaching skills, which students practise in class. There is a one-hour seminar which consolidates the work done in school. **Credit units: 3 ECTS Credit Units: 7. Spr (C. Crippin)**

**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 both assist students in the planning and evaluation of their school work and allows them to share experience. **Credit units: 3 ECTS Credit Units: 8, Prerequisite: TE 561. Aut (N. Aksıt)**

**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 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: 3 ECTS Credit Units: 8. Aut (M. K. Sands)**

**TE 573 Teaching Practice in Turkish Lang and Lit**

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: 3 ECTS Credit Units: 8. Aut (E. Sezer)**

**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 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: 3 ECTS Credit Units: 8. Aut (L. T. Merchant)**

**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 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: 3 ECTS Credit Units: 8. Aut (C. Crippin)**
MA PROGRAM IN TEACHING ENGLISH AS A FOREIGN LANGUAGE

C. Basham (Head), J. Eckerth, E. Sezer.

**Master of Arts Program In Teaching English as a Foreign Language (TEFL)**

The M.A. TEFL Program is designed to prepare professional teachers of English as a foreign language by increasing their knowledge of foreign language instructional 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 theory 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 2 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 36 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 Seminar 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 must be maintained to graduate.

**CURRICULUM**

**Autumn Semester**

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<th>Course Code</th>
<th>Course Title</th>
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<td>TEFL 506</td>
<td>Sociolinguistics</td>
<td>3 / -</td>
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<td>TEFL 521</td>
<td>EFL Methodology I</td>
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<td>TEFL 523</td>
<td>Literature and Culture in EFL</td>
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<td>TEFL 551</td>
<td>Research Seminar I</td>
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<td>TEFL 555</td>
<td>Written Academic Discourse</td>
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**Spring Semester**

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<td>TEFL 510</td>
<td>Language Testing</td>
<td>3 / -</td>
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<tr>
<td>TEFL 528</td>
<td>Curriculum Development and Evaluation</td>
<td>3 / -</td>
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<tr>
<td>TEFL 530</td>
<td>Materials Development</td>
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<tr>
<td>TEFL 552</td>
<td>Research Seminar II</td>
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TEFL 556 Seminar in TEFL ................................. 3 / -
TEFL 557 Written Academic Discourse II ......................... 3 / -

Summer School Credits / ECTS Credits
TEFL 553 Research Seminar III ........................................ 3 / -
TEFL 554 Thesis Writing ........................................... 3 / -

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: . Aut (J. Eckerth)

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:. Spr (Staff)

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: . Aut (C. Basham)

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: . Spr (Staff)

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:. Aut (C. Basham)

TEFL 523 Literature and Culture in EFL
Exploration of various issues involved in the teaching of culture and literature in the TEFL classroom, along with pedagogical implications. Particular focus is on such issues as the appropriate choice of materials and the incorporation of web-based tools to enhance cultural and literacy awareness. Credit units: 3 ECTS Credit Units:.

TEFL 525 Practicum
Different topics related to classroom teaching and classroom-centered research, including instructional observation, practice teaching, and in-class data collection and analysis. Projects based on these topics are assigned during the semester. Credit units: 3 ECTS Credit Units: .

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: . Spr (Staff)

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: .

TEFL 551 Research Seminar I
Introduction to skills in library research and research methodology including the collection, analysis, and processing of data. Issues of methodology are examined for their applicability to critiquing published research and to conducting original research in language-learning environments. Both quantitative and qualitative research traditions are examined. Credit units: 3 ECTS Credit Units: . Aut (J. Eckerth)

TEFL 552 Research Seminar II
More detailed examination of skills in library research and research methodology including the collection, analysis, and processing of data. Issues of methodology are examined for their applicability to conducting original research in language-learning environments. Credit units: 3 ECTS Credit Units: . Spr (Staff)
MA PROGRAM IN TEACHING ENGLISH AS A FOREIGN LANGUAGE

TEFL 553 Research Seminar III
Advanced skills in library research and research methodology including the collection, analysis, and processing of data. Specific focus is on production of individual theses. Credit units: 3 ECTS Credit Units: 

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: 3 ECTS Credit Units: . Aut (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: . Aut (Staff)

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: . Spr (E. Sezer)

TEFL 557 Written Academic Discourse II
Continuation of Written Academic Discourse I, with an emphasis on the academic writing process and its applications for teachers of writing. Credit units: 3 ECTS Credit Units: . Spr (Staff)
MA PROGRAM IN EDUCATION MANAGEMENT


The Masters of Arts 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 those on the program 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

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<tr>
<td>ME 511</td>
<td>Introduction to Development and Learning 3 / -</td>
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<tr>
<td>ME 527</td>
<td>Linguistics and Lexical Studies 3 / -</td>
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<th>Spring Semester</th>
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<tr>
<td>ME 522</td>
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<td>ME 524</td>
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SECOND YEAR

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<tr>
<th>Autumn Semester</th>
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<tr>
<td>ME 512</td>
<td>Managing the Curriculum I 3 / -</td>
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<td>ME 523</td>
<td>Managing Learning Methods II 3 / -</td>
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<tr>
<td>ME 526</td>
<td>Planning Teaching and Practice 3 / -</td>
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<table>
<thead>
<tr>
<th>Spring Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>ME 521</td>
</tr>
<tr>
<td>ME 525</td>
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THIRD YEAR

<table>
<thead>
<tr>
<th>Autumn Semester</th>
<th>Credits / ECTS Credits</th>
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<tbody>
<tr>
<td>ME 501</td>
<td>Managing Organizational Processes 3 / -</td>
</tr>
<tr>
<td>ME 502</td>
<td>Human Resources Management 3 / -</td>
</tr>
<tr>
<td>ME 513</td>
<td>Managing the Curriculum II 3 / -</td>
</tr>
</tbody>
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<table>
<thead>
<tr>
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<tbody>
<tr>
<td>ME 503</td>
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<tr>
<td>ME 504</td>
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ELECTIVES

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Units</th>
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<tbody>
<tr>
<td>ME 505</td>
<td>Management in Action</td>
<td>3 / -</td>
</tr>
<tr>
<td>ME 527</td>
<td>Linguistics and Lexical Studies</td>
<td>3 / -</td>
</tr>
</tbody>
</table>

COURSE DESCRIPTIONS

ME 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 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: Aut (S. Phipps)

ME 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, teamwork, as well as the issues of accountability, job planning and description, appraisal systems, recruitment and induction. Credit units: 3 ECTS Credit Units: Aut (M. Lovelace)

ME 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: Spr (J. O'Dwyer)

ME 504  Computing for Organizational Needs
This course aims to give students the necessary skills in word processing, spreadsheets and data base management for educational purposes. The main thread will be to ensure that these skills are applicable to school contexts with a view to allowing computing to play a key role in creating more effective and efficient managers and institutions. Credit units: 3 ECTS Credit Units: Spr (J. O'Dwyer)

ME 505  Management in Action
The course provides students with practical experience of management skills such as chairing and participating in meetings, time management and preparing and giving presentations. Students will be observed by the visiting tutor in meetings and giving presentations. Credit units: 3 ECTS Credit Units: Spr (S. Phipps)

ME 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: Aut (T. Aksit)

ME 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: 

ME 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: Prerequisite: ME 512. Aut (Staff)

ME 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: Spr (H. I. Işık-Mengü)

ME 522  Managing Learning Methods I
This course explores teaching methods and strategies, with particular relevance for ESL/EFL, 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: . Spr (E. Uzel Şen)

ME 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: . Prerequisite: ME 522. Aut (E. Uzel Şen) Spr (S. Phipps)

ME 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: . Spr (B. Clark)

ME 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: . Prerequisite: ME 524. Spr (B. Clark)

ME 526 Planning Teaching and Practice
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: 3 ECTS Credit Units: . Aut (H. I. İşik-Mengü)

ME 527 Linguistics and Lexical Studies
This course provides an in-depth look at second language acquisition theory and research findings, psycholinguistic processes of language learning, theories of learning and language learning, principles of language teaching and their implications for classroom methodology. It also provides an in-depth look at vocabulary acquisition theory, research findings, and corpus linguistics and their implications for classroom methodology and syllabus design. Credit units: 3 ECTS Credit Units: . Aut (S. Phipps)

ME 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 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: . Spr (S. Phipps, E. Uzel Şen)
The Faculty of Engineering comprises three academic departments:

- Computer Engineering
- Electrical and Electronics Engineering
- Industrial Engineering

The mission of the Faculty of Engineering is not only to impart contemporary engineering and scientific knowledge in the three 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 which lead 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.

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 analyze and model the real world. The courses with design components are to increase innovation and synthesis capability whereas the project courses are to enhance the integrative capability of the students. Students are expected to integrate their basic engineering concepts with in-depth knowledge they obtain in their specialized semester-long 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, Assistant Professor  
Ph.D., Electrical and Electronics Engineering, Bilkent University, 1994. Teletraffic analysis, performance evaluation, high-speed telecommunication networks, Internet technologies.

Mustafa Akgül, Associate Professor  
Ph.D., Combinatorics and Optimization, University of Waterloo, 1981. Combinatorial optimization, mathematical programming, linear programming, theoretical computer science, nonsmooth optimization.

Varol Akman, Professor  
Ph.D., Electrical, Computer, and Systems Engineering, Rensselaer Polytechnic Institute, 1985. Artificial intelligence, logic, philosophy of language, pragmatics, the Internet and society.

Selim Aksoy, Assistant Professor  

Defne Aktas, Assistant Professor  
Özgür Aktaş, Assistant Professor
Ph.D., Electrical and Computer Engineering, University of Illinois at Urbana-Champaign, 2001. Computational modeling of microelectronic and microelectromechanical devices, experimental investigation of semiconductor materials and high-speed devices.

M. Selim Aktürk, Professor

Osman Alp, Assistant Professor
Ph.D., Industrial Engineering Department, METU 2000. Inventory models, supply chain management, logistics, transportation of hazardous materials.

Ayhan Altıntaş, Professor

Erdal Arıkan, Professor

Orhan Arıkan, Associate Professor
Ph.D., Electrical and Computer Engineering, University of Illinois at Urbana-Champaign, 1990. Signal processing, remote sensing, communications.

Erol Arkun, Professor

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

Fazlı Can, Visiting Professor
Ph.D., Computer Engineering, Middle East Technical University, 1985. Information Retrieval, Access Methods, Stylometry.

Cengiz Çelik, Instructor
Enis Çetin, Professor  

İlyas Çiçekli, Assistant Professor  
Ph.D., Computer and Information Science, Syracuse University, 1991. Logic programming, artificial intelligence, computational linguistics, natural language processing.

David Davenport, Assistant Professor  
Ph.D., Electrical Engineering, University of Birmingham, 1980. Artificial intelligence, cognitive science, information retrieval, computer and education, Internet-related issues.

Tuğrul Dayar, Associate Professor  

Ali Doğramacı, Professor  
Ph.D., Industrial and Management Engineering, Columbia University, 1975. Production management and productivity analysis.

Uğur Doğrusöz, Assistant Professor  
Ph.D., Computer Science, Rensselaer Polytechnic Institute, 1995. Graph visualization, bioinformatics, combinatorial algorithms, and graph theory.

Pınar Duygulu, Assistant Professor  
Ph.D., Computer Engineering, Middle East Technical University, 2003. Multimedia data mining, information retrieval, computer vision, statistical machine learning, visual perception.

Oya Ekin-Karasan, Associate Professor  

Figen Eren, Instructor  

Nesim Erkip, Visiting Professor  

Vakur B. Ertürk, Assistant Professor  

Mehmet Murat Fadıloğlu, Assistant Professor  

Mehdi Fardmanesh, Assistant Professor  
Ph.D., Electrical Engineering, Drexel University, 1994. High-Tc superconductive infrared detectors and microwave resonators, optical detectors and thermal response modeling, ultra low noise circuitry, thin film technology, hybrid circuits and microelectronics.

Kağan Gökbayrak, Assistant Professor  
Ph.D., Manufacturing Engineering, Boston University, 2001. Internet traffic engineering and quality of service, stochastic discrete resource allocation, optimal control of discrete event and hybrid systems.
Uğur Gündükbay, Assistant Professor
Ph.D., Computer Engineering and Information Science, Bilkent University, 1994. Computer graphics, physically-based modeling and animation, deformable models, multimedia databases, computational geometry.

Levent Gürel, Professor
Ph.D., Electrical and Computer Engineering, University of Illinois at Urbana-Champaign, 1991. Computational electromagnetics, electromagnetic compatibility, wave propagation and scattering, microwave integrated circuits.

Ülkü Gürler, Professor

H. Altay Güvenir, Professor
Ph.D., Computer Engineering and Science, Case Western Reserve University, 1987. Artificial intelligence, machine learning, data mining, problem solving strategies, intelligent tutoring systems.

Yusuf Ziya İder, Professor
Ph.D., Biomedical Engineering, Northwestern University, 1979. Electrical impedance tomography, magnetic resonance imaging, acquisition and processing of physiological signals, PC based instrumentation.

İsmail İpek, Instructor

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

Aysel Semra Mumcu, Instructor
M.S., Electrical and Electronics Engineering, Middle East Technical University, 1990. Computer architecture, hardware engineering.

Osman Oğuz, Associate Professor
Ph.D., Management Sciences, University of Waterloo, 1978. Mathematical programming, linear and integer programming, scheduling.

Levent Onural, Professor
Ph.D., Electrical and Computer Engineering, State University of New York at Buffalo, 1985. Signal and image processing, holography, fractals, computer hardware, signal processing hardware.
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 Öncül, Instructor

Haldun Özakçaş, Professor
Ph.D., Electrical Engineering, Stanford University, 1991. Optical information processing, signal and image processing, optoelectronic and optically interconnected computing systems.

Hitay Özbay, Professor
Ph.D., Control Sciences and Dynamical Systems, University of Minnesota, 1989. Robust control, distributed parameter systems, aerodynamic flow control, applications of control theory in computer and control communication networks.

Özlem Özgü, Instructor

Bülent Özgüç, Professor

A. Bülent Özgüler, Professor

Erdal Panayirci, Visiting Professor

Mustafa Ç. Pınar, Professor

Tarkan Reyhan, Senior Lecturer
Ph.D., Electrical Engineering, University of Birmingham, 1981. Radio communication, RF design, thermal imaging, electro-optics.

İhsan Sabuncuoğlu, Professor

Turgay Saracoğlu, Instructor

Ulûc Saranlı, Assistant Professor
Ph.D., Computer Science: Intelligent Systems, University of Michigan, Ann Arbor, 2002, Formal methods for robot programming, analysis and control of legged locomotion, dynamically dexterous robot behaviors, applications of formal logic and type theory to robot motion planning, physically realistic simulation.

William Sawyer, Instructor
M.S., Electrical Engineering, Northeastern University, 1988. Digital design, CAD tools, computer architecture.

Markus Schaal, Instructor
Ali Aydın Selçuk, Assistant Professor  

M. Erol Sezer, Professor  
Ph.D., Electrical Engineering, Middle East Technical University, 1978. Multivariable and large-scale control systems, decentralized and hierarchical control, structural modeling, system theory, robot dynamics and control.

Alper Şen, Assistant Professor  
Ph.D., Business Administration, University of Southern California, 2000. Revenue management, inventory theory, supply chain management, machine scheduling, game theory.

Mehmet Rüştü Taner, Assistant Professor  

Barbaros Tansel, Professor  

Aysel Toptal, Assistant Professor  

Siu Hong Savio Tse, Assistant Professor  
Ph.D., Computer Science, University of Hong Kong, 1997. Distributed and approximate algorithms, compact routing, mobile and Internet computing.

Özgür Ulusoy, Professor  
Ph.D., Computer Science, University of Illinois at Urbana-Champaign, 1992. Data management for mobile systems, Web query languages and data models, multimedia database systems, real-time and active database systems.

Aslı Üstün, Instructor  

Hande Yaman, Assistant Professor  

Bahar Yetiş, Assistant Professor  

Emre Alper Yıldırım, Assistant Professor  

Jiang Yun, Assistant Professor  
Ph.D., Industrial Engineering and Engineering Management, Hong Kong University of Science and Technology, 2003. Scheduling, production planning and control, logistics.

ACADEMIC COORDINATORS

Johannes Marie Verhoeven, M.S., Philosophy, Groningen University.

PART-TIME ACADEMIC STAFF

Kıvanç Dinçer, Ph.D., Syracuse University, 1997.
Yavuz Oruç, Ph.D., Syracuse University, 1983.
Mahmut Tamersoy, M.S., Middle East Technical University, 1980.
Ömer Tanrıkuşlu, Ph.D., Mechanical Engineering Department, Middle East Technical University, 1999.
Erkan Tın, Ph.D., Bilkent University, 1995.
DEPARTMENT OF COMPUTER ENGINEERING


The Computer Engineering Department offers programs that lead to B.S., M.S., and Ph.D. degrees.

UNDERGRADUATE PROGRAM

The objective of the program is 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.

The program also aims at providing the students with a broad intellectual spectrum by including various elective courses in economics, social sciences, humanities and arts.

UNDERGRADUATE CURRICULUM

FIRST YEAR

<table>
<thead>
<tr>
<th>Autumn Semester</th>
<th>Credits / ECTS Credits</th>
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<tbody>
<tr>
<td>CS 101</td>
<td>Algorithms and Programming I</td>
</tr>
<tr>
<td>MATH 101*</td>
<td>Calculus I</td>
</tr>
<tr>
<td>MATH 111</td>
<td>Intermediate Calculus I</td>
</tr>
<tr>
<td>MBG 110</td>
<td>Introduction to Modern Biology</td>
</tr>
<tr>
<td>GE 101</td>
<td>Engineering Orientation</td>
</tr>
<tr>
<td>ENG 101</td>
<td>English and Composition I</td>
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<td>TURK 101</td>
<td>Turkish I</td>
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<th>Credits / ECTS Credits</th>
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<tbody>
<tr>
<td>CS 102</td>
<td>Algorithms and Programming II</td>
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<tr>
<td>MATH 102*</td>
<td>Calculus II</td>
</tr>
<tr>
<td>MATH 132</td>
<td>Discrete and Combinatorial Mathematics</td>
</tr>
<tr>
<td>ENG 102</td>
<td>English and Composition II</td>
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<tr>
<td>TURK 102</td>
<td>Turkish II</td>
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* Depending on the result of the calculus placement exam given at the beginning of the first year, students may take MATH 111 - MATH 112 - MATH 116 in place of MATH 101 - MATH 102.

SECOND YEAR

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<tr>
<th>Autumn Semester</th>
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<td>CS 201</td>
<td>Fundamental Structures of Computer Science I</td>
</tr>
<tr>
<td>CS 223</td>
<td>Digital Design</td>
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<tr>
<td>PHYS 101</td>
<td>General Physics I</td>
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<tr>
<td>HUM 111</td>
<td>Cultures Civilizations and Ideas I</td>
</tr>
<tr>
<td>HIST 201</td>
<td>History of Turkish Republic I</td>
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<th>Spring Semester</th>
<th>Credits / ECTS Credits</th>
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<tbody>
<tr>
<td>CS 202</td>
<td>Fundamental Structures of Computer Science II</td>
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<tr>
<td>CS 224</td>
<td>Computer Organization</td>
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<tr>
<td>PHYS 102</td>
<td>General Physics II</td>
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<tr>
<td>MATH 225</td>
<td>Linear Algebra and Differential Equations</td>
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<tr>
<td>HUM 112</td>
<td>Cultures Civilizations and Ideas II</td>
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<td>HIST 202</td>
<td>History of Turkish Republic II</td>
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### Third Year

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<tbody>
<tr>
<td>CS 299 Summer Training I</td>
<td>- / -</td>
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<tr>
<td>CS 315 Programming Languages</td>
<td>3 / 6</td>
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<tr>
<td>CS 319 Object-Oriented Software Engineering</td>
<td>4 / 6</td>
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<tr>
<td>CS 351 Data Organization and Management</td>
<td>3 / 6</td>
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<tr>
<td>MATH 250 Introduction to Probability</td>
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<tr>
<td>GE 301 Science Technology and Society</td>
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<td>Humanities or Social Sciences Elective (1)</td>
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<tr>
<td>CS 342 Operating Systems</td>
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<tr>
<td>CS 352 Database Management Systems</td>
<td>3 / 6</td>
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<tr>
<td>EEE 212 Microprocessors</td>
<td>4 / 6</td>
</tr>
<tr>
<td>EEE 391 Basics of Signals and Systems</td>
<td>3 / 6</td>
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<tr>
<td>Humanities or Social Sciences Elective (1)</td>
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### Fourth Year

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<tbody>
<tr>
<td>CS 299 Summer Training II</td>
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<tr>
<td>CS 473 Algorithms I</td>
<td>3 / 6</td>
</tr>
<tr>
<td>CS 491 Senior Design Project I</td>
<td>3 / 6</td>
</tr>
<tr>
<td>IE 400 Principles of Engineering Management</td>
<td>3 / 6</td>
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<tr>
<td>ENG 401 Technical Report Writing and Presentation</td>
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<tr>
<td>Restricted Electives (2)</td>
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<th>Credits / ECTS Credits</th>
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<tbody>
<tr>
<td>CS 476 Automata Theory and Formal Languages</td>
<td>3 / 6</td>
</tr>
<tr>
<td>CS 492 Senior Project</td>
<td>3 / 6</td>
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<tr>
<td>Restricted Electives (3)</td>
<td>9 / 18</td>
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</table>

#### Humanities and Social Sciences Electives

A list of approved elective courses is announced at the beginning of each semester by the Department.

### Restricted Electives

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Course Title</th>
<th>Credits / ECTS</th>
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<tbody>
<tr>
<td>CS 413</td>
<td>Software Engineering Project Management</td>
<td>3 / 6</td>
</tr>
<tr>
<td>CS 416</td>
<td>Compiler Design</td>
<td>3 / 6</td>
</tr>
<tr>
<td>CS 421</td>
<td>Computer Networks</td>
<td>3 / 6</td>
</tr>
<tr>
<td>CS 423</td>
<td>Computer Architecture</td>
<td>3 / 6</td>
</tr>
<tr>
<td>CS 424</td>
<td>Computer Network Programming</td>
<td>3 / 6</td>
</tr>
<tr>
<td>CS 431</td>
<td>Embedded Systems</td>
<td>4 / 6</td>
</tr>
<tr>
<td>CS 442</td>
<td>Distributed Systems and Algorithms</td>
<td>3 / 6</td>
</tr>
<tr>
<td>CS 452</td>
<td>Systems Analysis and Design</td>
<td>3 / 6</td>
</tr>
<tr>
<td>CS 461</td>
<td>Artificial Intelligence</td>
<td>3 / 6</td>
</tr>
<tr>
<td>CS 465</td>
<td>Computer Graphics I</td>
<td>4 / 6</td>
</tr>
<tr>
<td>CS 466</td>
<td>Computer Graphics II</td>
<td>4 / 6</td>
</tr>
<tr>
<td>CS 468</td>
<td>Principles of User Interface Design</td>
<td>3 / 6</td>
</tr>
<tr>
<td>CS 471</td>
<td>Numerical Methods</td>
<td>3 / 6</td>
</tr>
<tr>
<td>CS 472</td>
<td>Logic for Computer Science</td>
<td>3 / 6</td>
</tr>
<tr>
<td>MATH 202</td>
<td>Complex Analysis</td>
<td>3 / 6</td>
</tr>
<tr>
<td>MATH 253</td>
<td>Introduction to Number Theory</td>
<td>3 / 6</td>
</tr>
<tr>
<td>MATH 260</td>
<td>Introduction to Statistics</td>
<td>3 / 6</td>
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<tr>
<td>MATH 313</td>
<td>Real Analysis I</td>
<td>3 / 6</td>
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<tr>
<td>MATH 314</td>
<td>Real Analysis II</td>
<td>3 / 5</td>
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<tr>
<td>MATH 318</td>
<td>Fourier Transform and Wavelets</td>
<td>3 / 7</td>
</tr>
<tr>
<td>MATH 324</td>
<td>Algebra II</td>
<td>3 / 5</td>
</tr>
<tr>
<td>MATH 453</td>
<td>Algebraic Number Theory</td>
<td>3 / 6</td>
</tr>
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</table>
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, commonsense reasoning, computer vision, data mining, formal semantics, machine learning, pattern recognition, database systems, object-oriented systems, information storage and retrieval, distributed database systems, graphics, physically based animation, ray tracing, radiosity, user interfaces, image analysis, parallel processing, parallel algorithm design, task assignment, simulation of various applications on multicomputer architectures, parallel methods for scientific computing, computer networks, mobile and wireless networking, cryptography and network security, theory, algorithms, graph theory, graph drawing, graph coloring, computational geometry, Implications of Internet, capacity planning for web services, performance modeling.

Master of Science

Admission: All applicants are required to have a B.S. degree in Computer Engineering or a related field of science and engineering. All Turkish citizens must take the LES (Lisansıstitü Egitimi Giriş Sınavı - Postgraduate Education Entrance Examination) and have a minimum of 45 points in the quantitative section of the exam. GRE scores are required for international applicants. All non-native speakers of English are required to submit a proof of satisfactory knowledge of English. (Also refer to the “Graduate Admissions” section in the introduction of this catalog for the graduate admissions requirements.)

Degree Requirements: In addition to at least 24 credit units of course work, the M.S. degree candidate must take one research course, and prepare and successfully defend a thesis. The normal duration of M.S. study is four semesters. However, this may be extended for up to two more semesters upon approval of the Graduate Institute.

Doctor of Philosophy

Admission: All applicants are required to have a B.S. degree or a M.S. degree in Computer Engineering or a related field of science and engineering. All Turkish citizens must take the LES (Lisansıstitü Egitimi Giriş Sınavı - Postgraduate Education Entrance Examination) and have a minimum of 45 points in the quantitative section of the exam. GRE scores are required for international applicants. All non-native speakers of English are required to submit a proof of satisfactory knowledge of English. (Also refer to the “Graduate Admissions” section in the introduction of this catalog for the graduate admissions requirements.)

Degree Requirements: Each student’s Ph.D. program is individually planned with a faculty advisor. In addition to successful completion of at least 24 credit units of course work above the M.S. level (48 units of course work above B.S. level), the Ph.D. student is expected to pass qualifying examination, and to prepare and defend a dissertation based on original research. The normal duration for Ph.D. study is eight semesters for students with M.S. degree and ten semesters for students with the B.S. degree. However, these durations may be extended for up to two more semesters upon approval of the Graduate Institute.
CS 101  Algorithms and Programming I
Basic computer literacy: terminology, system components and operation. Fundamentals of computer programming: sequence, decision, repetition, syntax, compilation, debugging and maintenance, procedures, parameters, arrays, object, top-down structured design, 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) Spr (H. A. Güvenir)

CS 102  Algorithms and Programming II

CS 111  Introduction to Computing in Engineering and Science
Basic computer literacy: terminology, system components and operation. MATLAB as a technical programming language for solving engineering and scientific problems. Variables, scalars, arrays, scalar and array operations, top-down program design, relational and logical operators, branches, loops, syntax, compilation debugging and maintenance, built-in and user defined functions, function arguments, pass-by-value, plotting, handle graphics, graphical user interface. Introduction to object-oriented programming concepts with Java. Credit units: 3 ECTS Credit Units: 6. Aut (M. Baray, C. Çelik, M. Schaal) Spr (Ö. Özgü)

CS 112  Introduction to Object-Oriented Programming
Object-oriented programming with Java. Writing and enhancing classes, arrays, inheritance and polymorphism, abstract classes and interfaces, graphical user interface, I/O streams, exceptions, data structures, lists, stacks, queues and trees. Credit units: 4 ECTS Credit Units: 6. Prerequisite: CS 111 or CS 101. Spr (M. Baray, C. Çelik, M. Schaal)

CS 121  Introduction to Computing for Social Sciences
Students enhance their understanding of office programs, such as Word, Excel, and Access, in this course. This course is taught in a class with a PC and projector. Students apply the topics covered in class in the PC Labs (2 hours per week). A class exercise and a lab exercise are provided every week. Exams are also held in the PC labs. This way, students are expected to be efficient in the use of standard office programs. Credit units: 3 ECTS Credit Units: 6. Aut (I. İpek, A. S. Mumcu, H. Öncül, Ö. Özgü, T. Saracoğlu, A. Üstüner) Spr (I. İpek, A. S. Mumcu, A. Üstüner)

CS 122  Introduction to Programming for Social Sciences
This course encourages students to develop logical thinking skills through the process of programming the computer. It also aims to introduce students to the world of the Internet and its applications in modern business. To this end, students will learn how to use e-mail, how to create their own home page, and how to produce web applications through Java programming. Credit units: 3 ECTS Credit Units: 6. Spr (HÖncül, T. Saracoğlu)

CS 153  Introduction to Computing I
Digital text, video files and executable programs are stored in Web sites. These documents contain cross-references or links to other web documents that are on the same computer or other computers of a network. This course explains HTML (Hyper Text Markup Language) that is to write web documents. Web browsers, such as Netscape, MS Internet Explorer and Mosaic are explained. Web page design and interaction principles are introduced. Credit units: 3 ECTS Credit Units: 6. Aut (D. Eker, M. H. Erdğ) Spr (M. H. Erdğ)

CS 154  Introduction to Computing II
A continuation of CS 153, this course will cover the basics of Internet and the World Wide Web, the basic tags, URLs (Uniform Resource Locaters) and cross references, multi media files, data entry forms, image maps, CGI (Common Gateway Interface) programs and the Java language. Credit units: 3 ECTS Credit Units: 6. Prerequisite: CS 153. Aut (D. Eker) Spr (M. H. Erdğ)

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. Erdğ)
CS 156  Introduction to Advanced User Interfaces
Window management systems. Color-map and true color display procedures. Events, event trapping and buffering. Multi-media data and their display techniques. Designing interfaces for the web. Complexity of an interface as a function of data transfer and response time. Credit units: 3 ECTS Credit Units: 6, Prerequisite: CS 155. Spr (M. H. Erdoğ)

CS 201  Fundamental Structures of Computer Science I
The course teaches C++ in a way that emphasizes algorithm design using a structured, modular, and object-oriented approach. Then it introduces the abstract data types of lists, queues, and stacks, and shows how one can implement them in C++ using fundamental data structures. Credit units: 3 ECTS Credit Units: 6, Prerequisite: CS 101. Aut (S. Aksoy, T. Dayar)

CS 202  Fundamental Structures of Computer Science II
The course picks up from where the first semester course left by introducing recursion and studying recursion as a problem solving technique using data abstraction. Next it discusses concepts related to algorithmic efficiency on basic abstract data types and some sorting algorithms that utilize recursion. Then the course introduces the abstract data types of trees, tables, priority queues, and graphs, and shows how one can implement them in C++ using fundamental data structures by emphasizing run-time complexity analysis. Credit units: 3 ECTS Credit Units: 6, Prerequisite: CS 201. Spr (˙I. Çiçekli, S. H. S. Tse)

CS 223  Digital Design

CS 224  Computer Organization
Instruction set architecture (ISA), ISA design considerations, RISC vs. CISC, assembly and machine language, programming a RISC machine. Computer arithmetic, arithmetic logic unit, floating-point numbers and their arithmetic implementations. Processor design, datapath and control implementation, microprogrammed control, exception detection. Pipelining, hazards, pipelined processor design, hazard detection and forwarding, branch prediction and exception handling. Memory hierarchy, principles, structure, and performance of caches, virtual memory, segmentation and paging. I/O devices, I/O performance, interfacing I/O. Credit units: 3 ECTS Credit Units: 6, Prerequisite: CS 201. Spr (W. Sawyer)

CS 281  Computers and Data Organization

CS 299  Summer Training I
The minimum time for this practice in an organization is four weeks (20 working days). The main objective is to observe a company in an original setting and answer questions on the fundamental areas of Computer Engineering and Information Science. A written report summarizing the training experience is required. Credit units: None ECTS Credit Units: . Aut (Staff) Spr (Staff)

CS 315  Programming Languages

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 an/or a term project. Credit units: 4 ECTS Credit Units: 6, Prerequisite: CS 102 and CS 201. Aut (K. Dinçer, U. Dğrúsöz)

CS 342  Operating Systems
managing, I/O systems, and I/O processing. Examples of operating systems such as MS-DOS, UNIX. Credit units: 4 ECTS Credit Units: 6, Prerequisite: CS 101 and CS 224. Spr (Körpeoğlu)

CS 351 Data Organization and Management

CS 352 Database Management Systems
Review of relational data model and the relational manipulation language SQL. Additional relational languages: QBE, QUEL. Integrity constraints. Logical database design, dependency theory and normalization. Query processing and optimization. Transaction processing, concurrency control, recovery, and security issues in database systems. An overview of object-oriented and object-relational databases, distributed databases, and emerging database applications. Credit units: 3 ECTS Credit Units: 6, Prerequisite: CS 331 or CS 351. Spr (Arkun, C. Aykanat, Ö. Ulusoy)

CS 399 Summer Training II
The minimum time for this practice in an organization is four weeks (20 working days). The main objective is to observe a company in an original setting and answer questions on the fundamental areas of Computer Engineering and Information Science. A written report summarizing training experience is required. Credit units: None ECTS Credit Units: , Prerequisite: CS 299. Aut (Staff) Spr (Staff)

CS 411 Software Architecture Design
This course teaches the basic concepts, methods and techniques for designing software architectures. The topics include: 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.

CS 413 Software Engineering Project Management
Critical issues in preparation of proposals for technical specifications in software projects. Overview of cost analysis techniques and project management tools. Standards for information technology such as EIA/IEEE J-STD-016-1995. Technical documentation including software requirements specification (SRS), interface requirement specification (IRS), software design description (SDD), database design description (DDD), software test description (STD), software version description (SVD) as well as planning including software development plan (SDP), software test plan (STP), software installation plan (SIP) and software transition plan (STRP). Software code and document revising according to software configuration management principles. Preparation of software maintenance documents and user manuals. The course is term project based and requires active involvement in all of the abovementioned software engineering and management processes. Credit units: 3 ECTS Credit Units: 6. Aut (Tın) Spr (Tın)

CS 416 Compiler Design
Development of the logical design of a compiler: lexical analyzer, parser, semantic analyzer, code generator, code optimizer, and error recovery routines. Analysis of formal algorithms for each component, description of overall compiler construction techniques. Credit units: 3 ECTS Credit Units: 6, Prerequisite: CS 315. Spr (Çičekli)

CS 421 Computer Networks

CS 423 Computer Architecture
Structure of computing systems. Instruction sets and data types. Architectural design issues. Processor evaluation and benchmarking. Principles of RISC architectures. Pipelining and other advanced techniques for performance improvements. Memory systems: virtual memories, caches, and their management. I/O systems. Introduction to parallel computing, interconnection networks, and multiprocessors. Credit units: 3 ECTS Credit Units: 6, Prerequisite: CS 224 or CS 228. Spr (Y. Oruç)

CS 424 Computer Network Programming
Introduction to Sockets, Elementary TCP Sockets, I/O Multiplexing, Socket Options, Elementary UDP Sockets, Name and Address Conversions, Daemon Processes, Advanced I/O Functions, UNIX Domain Protocols, Non-

CS 431 Embedded Systems
This course is intended to give the students an understanding of the requirements, constraints and tools associated with the design and implementation of software systems that govern the operation of physical hardware. Since such systems are often combinations of electrical, mechanical and software components, we will learn about important aspects of design and implementation in each of these domains in the context of laboratory sessions and a term project. Specific topics will include real-time operating systems and concepts, microcontrollers and embedded development, communication protocols, data acquisition, sensory signal processing and basic control theory. Credit units: 4 ECTS Credit Units: , Prerequisite: EEE 212. Spr (U. Saranlı)

CS 442 Distributed Systems and Algorithms
Fundamentals of distributed systems and algorithms. Problems, methodologies and paradigms that are necessary for understanding and designing distributed applications with an emphasis on fault tolerance. Theoretical concepts will be complemented with practical examples of their application in current distributed systems. Credit units: 3 ECTS Credit Units: 6, Prerequisite: CS 342.

CS 452 Systems Analysis and Design
A study of the methods used in analyzing needs for information and in specifying requirements for an application system. Implementation of the operational system, integration of computer technology, and aspects of organizational behavior in the design support system are examined. Topics include the concept of the system life cycle, the iterative nature of the processes of analysis and design, and the methodology for developing a logical specification and physical design for an operational system. Credit units: 3 ECTS Credit Units: 6. Aut (M. Tamersoy) Spr (M. Tamersoy)

CS 461 Artificial Intelligence

CS 465 Computer Graphics I

CS 466 Computer Graphics II
This laboratory-lecture course is an advanced application of computer graphics techniques. Shading, deformation, ray tracing, radiosity, texture mapping, fractal representation and various other advanced techniques are discussed. Concepts of motion are introduced for the generation of digital animation. Concepts of graphical workstation design, especially with respect to user interfaces and window managers are introduced. Credit units: 4 ECTS Credit Units: 6, Prerequisite: CS 465. Spr (U. Saranlı)

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 (H. M. Karamülteğil) Spr (H. M. Karamülteğil)

CS 471 Numerical Methods
Surveys and applications of numerical techniques related to matrix inversion, systems of linear equations and optimization, finite difference expressions, interpolation and approximation, numerical differentiation and integration. The problems of speed, accuracy and applicability of the topics are examined with related algorithms. Credit units: 3 ECTS Credit Units: 6, Prerequisite: MATH 229 or MATH 220 and MATH 240. Aut (T. Dayar)

CS 472 Computer systems Performance Analysis
The course teaches how to conduct performance analysis and prediction for computer systems in the fast-changing work environments of today so that performance goals are set and then met quickly. To this end, it elaborates the performance by design methodology on practical computer systems using a software analysis tool. Credit units: 3 ECTS Credit Units: , Prerequisite: MATH 250 and CS 342. Spr (T. Dayar)
CS 473 Algorithms I

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. Spr (A. A. Selçuk)

CS 482 Logic for Computer Science
Introduction to logic for computer scientists. An elementary exposition, from a computational point of view, of propositional logic, first-order logic, axiomatic theories, and theories with equality. Interpretations, models, validity, proof. There is considerable emphasis on presenting many of the fundamental ideas of first-order logic in the framework of Tarski's World, an educational proprietary software. Credit units: 3 ECTS Credit Units: 6.

CS 491 Senior Design Project I
A technical project emphasizing engineering design principles on a specific topic in any field of computer science or engineering to be carried out by the team of senior students under the supervision of a faculty member. Students work within a team of 3 to 5 students. Three formal reports summarizing the specifications, analysis and the high level design of the project are required. Credit units: 3 ECTS Credit Units: 6. Aut (Staff) Spr (Staff)

CS 492 Senior Project
A technical project emphasizing engineering design principles on a specific topic in any field of computer science or engineering to be carried out by the team of senior students under the supervision of a faculty member. Students continue the project they started in CS 491 course, with the same team. Two formal reports summarizing the low level design and the implementation of the project and an oral presentation, including a demo, are required. Credit units: 3 ECTS Credit Units: 6, Prerequisite: CS 491. Aut (Staff) Spr (Staff)

GRADUATE COURSES

CS 502 Algorithms II

CS 511 Introduction to Performance Modeling
Performance modeling with stochastic processes (introduction, Little's law and the M/M/1 queue, stochastic processes), single-server queueing models (M/M/1 queueing models, M/G/1-FIFO queueing models with various scheduling disciplines, G/M/1-FIFO and G/G/1-FIFO queueing models, PH/PH/1 queueing models), queueing network models (open queueing networks, closed queueing networks, BCMP queueing networks), stochastic Petri nets, numerical solution of Markov chains, simulation. Credit units: 3 ECTS Credit Units: 6.

CS 512 Computer Networks

CS 513 Implications of the Internet
CS 514 Wireless Ad Hoc and Sensor Networks
Introduction to ad hoc networks, ad hoc Wireless MAC protocols, ad hoc routing protocols, service discovery, bluetooth and 802.11, introduction to sensor networks, sensor network architectures, hardware and software platforms and tools, topology control and routing in sensor networks, transport protocols, data dissemination and data fusion, data storage and querying in sensor networks, sensor data processing, power management and network lifetime, sensor network applications. Credit units: 3 ECTS Credit Units: 6. Aut (Köpeğli)

CS 515 Mobile and Wireless Networking

CS 518 Capacity Planning for Web Services
Web services rely on large-scale systems that consist of thousands of computers, networks, software components, and users. Large scale systems are inherently complex. The randomness associated with the way users request Web services compounds the problem of managing and planning the capacity of those services. The Web has special features that make its performance problems unique and demand novel approaches to dealing with them. This course presents a sound and practical approach to addressing these challenges using models based on probability fundamentals and the theory of queueing networks. In this way, it provides a quantitative approach to analyzing Web services, which lends itself to the development of performance and availability predictive models for managing and planning the capacity of Web services. Credit units: 3 ECTS Credit Units: 6.

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: 6. Aut (A. A. Selçuk)

CS 522 Networks and Algorithms for Parallel Computation
Basic concepts in parallel and systolic computation; elementary algorithms for linear arrays and grids; retiming and systolic conversion theorem; algorithms for meshes of trees, hypercubes, hypercubic networks and product networks; data routing and communication on parallel architectures; graph embedding methods; complexity models for VLSI processor arrays. Credit units: 3 ECTS Credit Units: 6.

CS 524 Algorithm Design for Parallel Computers

CS 527 Advances in Switching Networks
This course will focus on recent advances in circuit and packet switching research. Its main goal is to familiarize the student with the frontier research results and open problems in the field. The format of the course is designed to encourage the students to develop research skills by reading and discussing the research results and techniques that have been described in the articles that are contained in the text and elsewhere in the related literature. The students will be assigned a number of papers for reading, presenting them in class, and evaluating their importance. Credit units: 3 ECTS Credit Units: 6. Aut (Y. Oruç)

CS 528 Advanced in Switching Networks II
This course will focus on recent advances in packet switching research. Its main goal is to familiarize the student with the frontier research results and open problems in the field. The format of the course is designed to encourage the students to develop research skills by reading and discussing the research results and techniques that have been described in the articles that are contained in the text and elsewhere in the related literature. The students will be assigned a number of papers for reading, presenting them in class, and evaluating their importance. Credit units: 3 ECTS Credit Units: 6. Aut (Y. Oruç)

CS 532 Database Systems

CS 533 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: 6. Spr (F. Can)

CS 536  Distributed Database Systems
Database distribution architectures. Distributed query processing. Distributed query optimization. Distributed
transaction management. Distributed concurrency control. Distributed reliability protocols. Multidatabase sys-
tems. Mobile distributed database management. Credit units: 3 ECTS Credit Units: 6.

CS 540  Parallel Programming Languages-Systems
Parallel programming models, languages and environments. Fundamental concepts: memory hierarchy, commu-
nication, locality, latency, synchronization, load balancing. Parallel programming models: data parallel, shared
address space, message passing, data-driven, object oriented, functional. Parallel programming languages
and runtime systems: data parallel languages, message passing libraries and language constructs, data-driven
object based languages, shared memory programming, multithreading. Credit units: 3 ECTS Credit Units: 6.

CS 543  Parallel Methods for Scientific Computing
Parallel methods for computations in the areas bioinformatics, computational physics, computational chemistry
and other disciplines. The theme of the course will be development of parallel/distributed algorithms and/or
software and interdisciplinary projects are emphasized. Students are assumed to be familiar with parallel
architectures and parallel programming. Credit units: 3 ECTS Credit Units: 6.

CS 546  Advanced Operating Systems
Introduction and basic concepts in parallel and distributed operating systems. Synchronization mechanisms:
Semaphores, monitors, communicating sequential processes. Deadlocks. Inter-process communication. Theo-
etical foundations of distributed operating systems: logical clocks, vector clocks, global state and consistency,
termination, and agreement protocols. Task Scheduling for Multiprocessor and Distributed Operating Systems.
Previous knowledge of operating systems is required. Credit units: 3 ECTS Credit Units: 6.

CS 550  Machine Learning
Paradigms and issues of machine learning. Introduction to induction, instance and hypothesis spaces, inductive
bias, sample complexity, computational complexity. Theory and methodology of induction. A formulation of a
general paradigm for inductive inference. Approaches to supervised attribute based induction. Valiant's learning
Previous knowledge of artificial intelligence is required. Credit units: 3 ECTS Credit Units: 6.

CS 551  Pattern Recognition
Basics of statistical and structural pattern recognition. Feature extraction and selection. Bayesian decision
units: 3 ECTS Credit Units: 6. Spr (S. Aksoy)

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: 6. Spr (P. Duygulu)

CS 558  Data Mining
Overview of Data Mining Classification, regression, time series. Measuring predictive performance. Data
preparation, data reduction. Mathematical solutions, statistical methods, distance solutions, decision trees,

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, con-
vex 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 prob-
lems 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: 6.

CS 565  Application of Computer Graphics
Use of computer graphics in various engineering fields. Three dimensional modeling and representation. Color,
shading and lighting methods. Representation of surfaces. Graphical databases, graphics standards. Hidden
surface problem, motion and animation. Texture mapping, controlled deformations. Previous knowledge of
computer graphics is required. Credit units: 3 ECTS Credit Units: 6. Aut (BÖzgüç)

CS 566 User Interface Design
Raster monitor and frame buffer device design and interaction principles. Mouse and various other interaction
devices, their software and hardware standards. Event driven programming. Multi window environments. Simple,
hyeirarchical and context sensitive menus. Window standards, window managers and various operations with
windows. Window selection techniques, iconic and/or hidden windows, partially hidden windows. Credit units: 3
ECTS Credit Units: 6.

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. Topics include paths and searching, trees, networks, cycles, planarity, matching,
and independence. Certain NP-complete graph problems and their approximation algorithms are discussed.
Special topics such as graph drawing and graph coloring are covered. In addition, extremal graph theoretical
problems are introduced. Previous knowledge of algorithms is required. Credit units: 3 ECTS Credit Units: 6.

CS 571 Topics in Graph Theory and Algorithms
A course on special topics in Graph Theory and Algorithms. Presents a detailed study of current research topics
in these areas. Prior knowledge of fundamentals of algorithm design and analysis and graph theory required.
Special permission from the instructor required. Credit units: 3 ECTS Credit Units: 6. Spr (U. Dikranóz)

CS 572 Theory of Computing
Theory of computational complexity, intractability, unsolvability results. Classification of solvable problems ac-
cording to their complexities. The class of NP-complete problems. Approximate and online algorithms such as
vertex cover, subset-sum, dictionary, and demanding paging problems. Credit units: 3 ECTS Credit Units: 6. Aut
(S. H. S. Tsé)

CS 573 Algorithms I
Asymptotic notation. Divide and conquer: Strassen's algorithm for matrix multiplication, quicksort. Solving
Medians and order statistics. Heaps: heapsort, priority queues. Sorting in linear time. Dynamic programming:
matrix-chain multiplication, longest common subsequence, 0/1 Knapsack problem, resource allocation problem.
Greedy algorithms: activity selection problem, Huffman codes, task scheduling problem. Amortized analysis:
aggregate, accounting and potential methods, dynamic tables. Credit units: 3 ECTS Credit Units: 6. Aut (C.
Aykánát)

CS 574 Varieties of Formal Semantics
Beginning model theory. Non-classical logics. Brief review of the pioneering works of Frege, Russell, Tarski et
al. in philosophical logic and semantics. Determiners. Quantifiers. Conditionals. Tense and modality. Counter-
Situated set theory. Credit units: 3 ECTS Credit Units: 6.

CS 580 Advanced Finite State Techniques in Language Processing
Overview of the theory of finite-state recognizers, transducers and regular languages. Regular relations as
mapping between regular languages. Advanced finite state operators and calculus. Finite state applications in
natural language processing; computational morphology, disambiguation and tagging, light parsing, information
retrieval. Credit units: 3 ECTS Credit Units: 6. Prerequisite: Consent of the instructor.

CS 584 Text Retrieval Database Design
Principals of document retrieval; Controlled and free-text indexing, Boolean and best match retrieval systems;
Probabilistic text retrieval; The nature of human interaction in retrieval systems; Evaluation of text retrieval
systems; Knowledge discovery by text retrieval. Credit units: 3 ECTS Credit Units: 6.

CS 586 Aspect-Oriented Software Development
Aspect-oriented software development (AOSD) is an advanced technology for separation of concerns, which
provides explicit concepts to modularize concerns that tend to be more systemic, crosscut a broader set of
modules and as such cannot be easily specified in single modules. This course will provide an in-depth analysis
of the basic concepts of AOSD and teach the state of-the-art AOSD techniques. The important topics in
this course are following: separations of concerns; 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; design space modeling, composition anomalies. Credit units:
3 ECTS Credit Units: 6.
CS 590  Research Topics
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: . Aut (Staff) Spr (Staff)

CS 599  Master’s Thesis
Credit units: None ECTS Credit Units: 24. Aut (Staff) Spr (Staff)

CS 661  Philosophical Foundations of Artificial Intelligence
Action and agency; behaviorism; belief; computational models of mind; concepts; consciousness; content; con-
text; Davidson and anomalous monism; Dreyfus’s criticisms; folk psychology; functionalism; Goedel’s theorem;
intentionality; the Language of Thought; mental representation; naturalism; perception; possible worlds; practical
reasoning; propositional attitudes; rationality; reasons and causes; reference; Searle and Chinese Room; the
self; thought and language; Turing Test; Weak AI vs. Strong AI. Previous knowledge of artificial intelligence is
required. Credit units: 3 ECTS Credit Units: 6.

CS 690  Advanced Research Topics
This is a seminar course for Ph.D. 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: . Aut (Staff) Spr (Staff)

CS 699  Ph.D. Dissertation
Credit units: None ECTS Credit Units: 24. Aut (Staff) Spr (Staff)
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING


Part-time: A. Z. Alkar.

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 will 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 of the Electrical and Electronic Engineering Department is to provide its graduates with the knowledge and skills needed for high quality engineering work as well as advanced engineering research and to equip its graduates with a broad intellectual spectrum in order to prepare them for diverse and competitive career paths.

As individuals and as members of a team, Electrical and Electronics Engineering majors will have a solid mathematical and scientific background, a strong foundation in engineering areas relevant to current industry needs, an ability to apply design processes discipline to provide resourceful and innovative engineering solutions, an ability to communicate effectively, and to act with social, ethical, and professional responsibility. Our majors will also be equipped with an ability to use computers as a tool for analysis, design, simulation, and control, strong laboratory skills, an understanding of a need for lifelong learning and critical thinking as well as an understanding of social, business, industrial, and human aspects as a complement to their engineering background.

UNDERGRADUATE CURRICULUM

FIRST YEAR

<table>
<thead>
<tr>
<th>Autumn Semester</th>
<th>Credits / ECTS Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 101</td>
<td>General Physics I</td>
</tr>
<tr>
<td>MATH 101*</td>
<td>Calculus I</td>
</tr>
<tr>
<td>GE 101</td>
<td>Engineering Orientation</td>
</tr>
<tr>
<td>CS 111</td>
<td>Introduction to Computing in Engineering and Science</td>
</tr>
<tr>
<td>EEE 101</td>
<td>Introduction to Electrical and Electronics Engineering</td>
</tr>
<tr>
<td>ENG 101</td>
<td>English and Composition I</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Spring Semester</th>
<th>Credits / ECTS Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 102</td>
<td>General Physics II</td>
</tr>
<tr>
<td>MATH 102*</td>
<td>Calculus II</td>
</tr>
<tr>
<td>CS 112</td>
<td>Introduction to Object-Oriented Programming</td>
</tr>
<tr>
<td>EEE 102</td>
<td>Introduction to Digital Circuit Design</td>
</tr>
<tr>
<td>ENG 102</td>
<td>English and Composition II</td>
</tr>
</tbody>
</table>

* Depending on the result of the calculus placement exam given at the beginning of the first year, students may take MATH 111 - MATH 112 - MATH 116 in place of MATH 101 - MATH 102.

SECOND YEAR

<table>
<thead>
<tr>
<th>Autumn Semester</th>
<th>Credits / ECTS Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 225</td>
<td>Linear Algebra and Differential Equations</td>
</tr>
<tr>
<td>EEE 211</td>
<td>Analog Electronics</td>
</tr>
<tr>
<td>HUM 111</td>
<td>Cultures Civilizations and Ideas I</td>
</tr>
<tr>
<td>Course Code</td>
<td>Course Title</td>
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<tr>
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<td>-------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>TURK 101</td>
<td>Turkish I</td>
</tr>
<tr>
<td></td>
<td>Technical Elective (2)</td>
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<tr>
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<td><strong>Spring Semester</strong></td>
</tr>
<tr>
<td>MATH 206</td>
<td>Complex Calculus and Transform Techniques</td>
</tr>
<tr>
<td>EEE 202</td>
<td>Circuit Theory</td>
</tr>
<tr>
<td>EEE 212</td>
<td>Microprocessors</td>
</tr>
<tr>
<td>HUM 112</td>
<td>Cultures Civilizations and Ideas II</td>
</tr>
<tr>
<td>TURK 102</td>
<td>Turkish II</td>
</tr>
<tr>
<td></td>
<td>Technical Elective (1)</td>
</tr>
</tbody>
</table>

### THIRD YEAR

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits/ECTS Credits</th>
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</thead>
<tbody>
<tr>
<td>EEE 299</td>
<td>Summer Training I</td>
<td>-/-</td>
</tr>
<tr>
<td>EEE 313</td>
<td>Electronic Circuit Design</td>
<td>4/7</td>
</tr>
<tr>
<td>EEE 321</td>
<td>Signals and Systems</td>
<td>4/7</td>
</tr>
<tr>
<td>EEE 351</td>
<td>Engineering Electromagnetics</td>
<td>3/5</td>
</tr>
<tr>
<td>HIST 201</td>
<td>History of Turkish Republic I</td>
<td>2/1</td>
</tr>
<tr>
<td></td>
<td>UR Elective (1)</td>
<td>0-3/4</td>
</tr>
<tr>
<td></td>
<td>Humanities or Social Sciences Elective (1)</td>
<td>3/6</td>
</tr>
<tr>
<td></td>
<td><strong>Spring Semester</strong></td>
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</tr>
<tr>
<td>MATH 250</td>
<td>Introduction to Probability</td>
<td>3/5</td>
</tr>
<tr>
<td>EEE 342</td>
<td>Feedback Control Systems</td>
<td>3/6</td>
</tr>
<tr>
<td>HIST 202</td>
<td>History of Turkish Republic II</td>
<td>2/1</td>
</tr>
<tr>
<td></td>
<td>Restricted Elective (1)</td>
<td>3-4/6</td>
</tr>
<tr>
<td></td>
<td>UR Elective (1)</td>
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</tr>
<tr>
<td></td>
<td>Humanities or Social Sciences Elective (1)</td>
<td>3/6</td>
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</table>

### FOURTH YEAR

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits/ECTS Credits</th>
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<tbody>
<tr>
<td>GE 301</td>
<td>Science Technology and Society</td>
<td>2/1</td>
</tr>
<tr>
<td>EEE 399</td>
<td>Summer Training II</td>
<td>-/-</td>
</tr>
<tr>
<td>EEE 491</td>
<td>Senior Project I</td>
<td>3/6</td>
</tr>
<tr>
<td></td>
<td>Restricted Electives (2)</td>
<td>6-8/8</td>
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<tr>
<td></td>
<td>Unrestricted Elective (1)</td>
<td>0-3/5</td>
</tr>
<tr>
<td></td>
<td><strong>Spring Semester</strong></td>
<td></td>
</tr>
<tr>
<td>GE 304</td>
<td>Technology Society, and Professional Development Seminar</td>
<td>1/1</td>
</tr>
<tr>
<td></td>
<td>Restricted Elective (4)</td>
<td>9-12/24</td>
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<tr>
<td></td>
<td>Unrestricted Elective (1)</td>
<td>0-3/5</td>
</tr>
</tbody>
</table>

### RESTRICTED ELECTIVES

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits/ECTS Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GE 401</td>
<td>Innovative Product Design and Development I</td>
<td>3/6</td>
</tr>
<tr>
<td>GE 402</td>
<td>Innovative Product Design and Development II</td>
<td>3/6</td>
</tr>
<tr>
<td>CS 421</td>
<td>Computer Networks</td>
<td>3/6</td>
</tr>
<tr>
<td>EEE 314</td>
<td>Digital Electronics</td>
<td>4/7</td>
</tr>
<tr>
<td>EEE 352</td>
<td>Applied Electromagnetics</td>
<td>3/6</td>
</tr>
<tr>
<td>EEE 405</td>
<td>Introduction to Numerical Analysis</td>
<td>3/6</td>
</tr>
<tr>
<td>EEE 411</td>
<td>Telecommunication Electronics</td>
<td>4/7</td>
</tr>
<tr>
<td>EEE 412</td>
<td>Microwave Electronics</td>
<td>4/7</td>
</tr>
<tr>
<td>EEE 414</td>
<td>Introduction to CMOS VLSI Design</td>
<td>3/6</td>
</tr>
<tr>
<td>EEE 415</td>
<td>Analag CMOS Integrated Circuits</td>
<td>3/-</td>
</tr>
<tr>
<td>EEE 416</td>
<td>Principles of Applied Superconductivity</td>
<td>3/6</td>
</tr>
<tr>
<td>EEE 417</td>
<td>Theory and Modelling of Advanced Nanodevices</td>
<td>3/-</td>
</tr>
<tr>
<td>EEE 418</td>
<td>Principles of Electronic Devices</td>
<td>4/7</td>
</tr>
<tr>
<td>EEE 424</td>
<td>Digital Signal Processing</td>
<td>4/7</td>
</tr>
<tr>
<td>EEE 426</td>
<td>Digital Image Processing</td>
<td>3/6</td>
</tr>
<tr>
<td>EEE 427</td>
<td>Digital Coding of Waveforms</td>
<td>3/6</td>
</tr>
<tr>
<td>EEE 428</td>
<td>Optics</td>
<td>4/7</td>
</tr>
</tbody>
</table>
Students may take at most two EE 500 or higher coded courses and at most one 300 or higher coded CS, IE, MATH, or PHYS course as restricted elective courses.

GRADUATE PROGRAMS

Graduate programs focus on those fields which are heavily in demand worldwide. Current research areas are signal and image processing, VLSI design, optics, acoustics, electromagnetics, fiber optics, telecommunications, biomedical imaging, 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, robotics and microwave electronics laboratories.

Master of Science

Admission: All applicants are required to have a B.S. degree in Electrical and Electronics Engineering or a related field of science and engineering. All Turkish citizens must take the LES (Lisansüstü Eğitimini Giriş Sınavı - Postgraduate Education Entrance Examination) and have a minimum of 45 points in the quantitative section of the exam. GRE scores are required for international applicants. All non-native speakers of English are required to submit a proof of satisfactory knowledge of English. (Also refer to the “Graduate Admissions” section in the introduction of this catalog for the graduate admissions requirements.)

Degree Requirements: In addition to at least 24 credit units of course work, the M.S. degree candidate must take one research course, and prepare and successfully defend a thesis. The normal duration of M.S. study is four semesters. However, this may be extended for up to two more semesters upon approval of the Graduate Institute.

Doctor of Philosophy

Admission: All applicants are required to have a B.S. degree or a M.S. degree in Electrical and Electronics Engineering or a related field of science and engineering. All Turkish citizens must take the LES (Lisansüstü Eğitimini Giriş Sınavı - Postgraduate Education Entrance Examination) and have a minimum of 45 points in the quantitative section of the exam. GRE scores are required for international applicants. All non-native speakers of English are required to submit a proof of satisfactory knowledge of English. (Also refer to the “Graduate Admissions” section in the introduction of this catalog for the graduate admissions requirements.)
Degree Requirements: Each student’s Ph.D. program is individually planned with a faculty advisor. In addition to successful completion of at least 24 credit units of course work above the M.S. level (48 units of course work above B.S. level), the Ph.D. student is expected to pass qualifying examination, and to prepare and defend a dissertation based on original research. The normal duration for Ph.D. study is eight semesters for students with M.S. degree and ten semesters for students with the B.S. degree. However, these durations may be extended for up to two more semesters upon approval of the Graduate Institute.

COURSE DESCRIPTIONS

EEE 101 Introduction to Electrical and Electronics Engineering
Voltage, current, Kirchoff Laws, voltage and current measurement, Ohm’s Law, resistors, diodes, half-wave rectifier, Zener diodes, LEDs, Non-linear resistive elements, capacitors, inductors, transformers, oscilloscopes to measure waveforms and i-v characteristics. Design project and a competition. There will be seminars on the role of the electrical/electronics engineering and the current issues in the profession. Credit units: 3 ECTS Credit Units: 6. Aut (Z. G. Figen, H. Özbay) Spr (T. Reyhan)

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, sequential logic, flip-flops, registers, clocked circuits, clock generation, counters, shift registers, arithmetic circuits. Credit units: 3 ECTS Credit Units: 6, Prerequisite: CS 111 or CS 101. Aut (M. E. Sezer) Spr (Y. Z. İlder, M. E. Sezer)

EEE 202 Circuit Theory

EEE 211 Analog Electronics
Fundamental analog electronics is studied in this course. The course is structured on a scenario of designing a HF radio transceiver. Topics in analog electronics in the frequency range of 100 Hz to 30 MHz range are covered. Block diagram concept, passive electronic components (R, L, C, diode, crystals, etc.) and integrated circuits, as active devices, are discussed. Filters, power supplies, audio amplifiers, speakers, microphones, radio amplifiers, oscillators, mixers, noise intermodulation, and antennas are progressively introduced towards the construction of the transceiver. Credit units: 4 ECTS Credit Units: 7, Prerequisite: EEE 101 and PHYS 102. Aut(Q. Aktas, H. Köymen) Spr (H. Köymen)

EEE 313 Electronic Circuit Design

EEE 314 Digital Electronics
EEE 321  Signals and Systems
Basic discrete and continuous signals and systems, linear time-invariant systems, Fourier analysis for con-
tinuous and discrete signals and systems, filtering, sampling of continuous time signals, elementary modulation
techniques. Credit units: 4 ECTS Credit Units: 7. Prerequisite: EEE 202. Aut (O. Ankan) Spr (E. Çetin)

EEE 342  Feedback Control Systems
Use of Feedback: open loop and closed loop control systems. Mathematical Models of Dynamical Systems:
State equations, transfer functions. Block diagram manipulations. Bounded Input Bounded Output Stability,
method. Design of Feedback controllers. Sensitivity and robustness. Credit units: 3 ECTS Credit Units: 6,
Prerequisite: EEE 321. Aut (A. B. Özküller) Spr (H. Özbay)

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. Far-
coustic and Poynting vector. Reflection of plane waves from plane boundaries. Introduction to transmission lines.
Credit units: 3 ECTS Credit Units: 5, Prerequisite: MATH 115 or MATH 102 and PHYS 102. Aut (A. Altıntaş)
Spr (A. Altıntaş)

EEE 352  Applied Electromagnetics
Review of static electric and magnetic fields. Dielectric 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
Basic discrete and continuous signals, linear time-invariant systems, Fourier analysis for continuous-time and
discrete signals. Frequency responses of LTI systems. Continuous and discrete-time filtering. AM modulation,
single-sideband modulation, narrow-band FM. Sampling of continuous-time signals, sampling theorem, discrete-
time processing of continuous-time signals. Laplace transform, Z-transform. Linear feedback systems. Credit
units: 3 ECTS Credit Units: 6. Spr (B. Barshan, L. Onural)

EEE 393  Basic Electrical Engineering
Circuit elements, Kirchhoff's laws, techniques for analyzing linear circuits, linearity and superposition principle
Thevenin and Norton equivalent circuits, first-order and second-order circuits, introduction to systems, system
components: semiconductors, transistors and integrated circuits, logic element, digital devices, microprocessors,
operational amplifiers, transformers, device modeling. Credit units: 3 ECTS Credit Units: .

EEE 399  Summer Training II
The minimum time for this practice in an organization is four weeks (20 working days). The main objective is to
observe a company in an original setting and work on questions relevant to the company on the fundamental
areas of Electronic Engineering. Credit units: None ECTS Credit Units: , Prerequisite: EEE 299 or EE 299. Aut
(Staff)

EEE 405  Introduction to Numerical Analysis
This course will provide a comprehensive introduction to numerical analysis for students not specializing in
computer science or numerical analysis. The emphasis will be on making a broad review, so that the students
will be able to choose the appropriate methods and apply them to their problems of interest. The topics to
be covered will include direct and iterative numerical methods for systems of linear equations, least squares
problems, determination of eigenvalues and singular values, methods for nonlinear equations, optimization
problems, interpolation, numerical integration and differentiation, and numerical solution of ordinary and partial
differential equations. Credit units: 3 ECTS Credit Units: 6, Prerequisite: MATH 225.

EEE 411  Telecommunication Electronics
Nonlinear controlled sources: piece-wise linear, square law, exponential and differential pair characteristics.
Low level amplitude modulation and analog multiplication. Nonlinear loading of tuned circuits. Sinusoidal
oscillators. Frequency mixers. High level amplitude modulation techniques. Credit units: 4 ECTS Credit Units:
7, Prerequisite: EEE 313. Aut (T. Reyhan)

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. Spr (A. Atalar)
EEE 414  Introduction to CMOS VLSI Design
Introduction to CMOS circuits, MOS transistor theory, CMOS processing technology, CMOS circuit character-
ization. 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 re-
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. Credit units: 3 ECTS Credit Units: . Aut (A. Atalar)

EEE 416  Principles of Applied Superconductivity
Principles of conductivity, superconductivity phenomenon, properties of superconductors, large scale applica-
tions. Type I and type II superconductors and magnetic properties, transport properties, electrodynamics of
superconductors, complex conductivity, principles of microscopic theories and applications, superconductor-
normal and superconductor-superconductor tunneling. Josephson Junctions and electrical characteristics, RF
effects in Josephson Junctions, principles of superconductive interference devices and applications. Credit units:
3 ECTS Credit Units: 6, Prerequisite: EEE 202 and EEE 351.

EEE 417  Theory and Modelling of Advanced Nanodevices
Advanced nanodevices course will concentrate on the state-of-the-art in nanoelectronic device concepts. At the
beginning of the course, a brief introduction to the physical principles needed to understand the devices to be
discussed will be given. Then, the “classical” nanoelectronic devices (HEMT, HBT, nanometer scale MOSFET,
and polymer/organic thin-film-transistors) will be discussed. These devices will be investigated through analytical
models and using two-dimensional device simulations. In the later part of the course, we will concentrate on
novel concepts in molecular/organic devices (nanotubes, molecular-atomic junctions), nanobiodevices (ion-
channels, microarrays), spintronics, and data storage systems. Credit units: 4 ECTS Credit Units: . Spr (¨O.
Aktas) 

EEE 418  Principles of Electronic Devices
Carrier concentrations and transport properties in semiconductors. Equilibrium states of PN junctions. Transient
analysis of PN junction diodes. SS, MS, SIS junction characteristics and principles of special purpose diodes.
BJT equilibrium states and Ebers-Moll static model. Secondary effects and transient states in BJTs. Small signal
model. JFET characteristics and equilibrium states. Principles of metal-insulator-semiconductor transistors and
dc characteristics. Credit units: 4 ECTS Credit Units: 7, Prerequisite: EEE 211 and EEE 202 and PHYS 102.

EEE 422  Digital Signal Processing Laboratory
AR, MA, ARMA modeling of data, spectrum estimation using periodogram and model based methods. Subband
filterbanks and applications. Voice coding and vocoder implementation of adaptive and fixed filter banks. Digital
signal processors and real time processing of data. Credit units: 3 ECTS Credit Units: .

EEE 424  Digital Signal Processing
Discrete-time signals and systems. Review of the z-transform. DFT and its compulation. Some other linear
transform. DCT, DST, Hartley, Hilbert, Walsh, Hadamard, etc. Digital filters (FIR and IIR) and filtering. Intro-
duction to multirate signal processing. Introduction to time-frequency representations. Inverse problems. Credit
units: 4 ECTS Credit Units: 7, Prerequisite: EEE 321. Aut (E. Çetin) Spr (O. Arıkan)

EEE 426  Digital Image Processing
2-D signals, image sampling and quantization, image enhancement, 2-D DFT, DCT and Hadamard transforms,
introduction to image restoration, color basics and color image processing, 2-D filtering, introduction to image
compression. Credit units: 3 ECTS Credit Units: 6, Prerequisite: EEE 321.

EEE 427  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.
Credit units: 3 ECTS Credit Units: 6, Prerequisite: EE 431.

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 (H.Özaktaş)
EEE 429  **Photonics**  

EEE 431  **Telecommunications I**  
Time and frequency domain analysis of signals and systems. Amplitude modulation (AM); modulation and demodulation of double, single and vestigial sideband AM signals. Frequency division multiplexing (FDM). Angle modulation: modulation and demodulation of narrowband frequency modulation (FM); wideband FM; and phase modulation (PM) signals. Superheterodyne receivers. TV systems. **Credit units: 3 ECTS Credit Units: 6, Prerequisite: MATH 250 and EEE 321. Aut (E. Panayırcı)**

EEE 432  **Telecommunications II**  
Pulse modulation: modulation and demodulation of pulse-amplitude modulation (PAM); pulse code modulation (PCM); differential pulse code modulation (DPCM); and delta modulation (DM) signals. Time division multiplexing (TDM). Random processes. Mathematical representation of noise. Noise performance of analog and digital communication systems. Discussion of some of the basic technological aspects of telecommunication systems such as satellite systems and data networks. **Credit units: 3 ECTS Credit Units: 6, Prerequisite: EEE 431. Spr (D. Aktaş)**

EEE 434  **Wireless Communications**  

EEE 442  **Nonlinear Systems**  

EEE 443  **Neural Networks**  

EEE 444  **Robust Feedback Theory**  

EEE 445  **Sampled Data Systems**  

EEE 447  **Robotics and Sensing**  
Robot arm kinematics; robot arm dynamics; planning of manipulator trajectories; Range sensing (time-of-flight and triangulation systems); proximity sensing (optical, magnetic, capacitive, inductive, ultrasonic), tactile sensing, force and torque sensing. Mobile robots (map building, path planning, navigation, obstacle avoidance, target identification and tracking). **Credit units: 3 ECTS Credit Units: 6, Prerequisite: PHYS 102 and MATH 225. Aut (B. Barshan)**

EEE 451  **Microwave Engineering**  

EEE 452  **Antenna Engineering**  

EEE 473 Medical Imaging
The course teaches the 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.

EEE 474 Foundations of Magnetic Resonance Imaging
Nuclear magnetic resonance signals were first detected in 1945. Since then, research on this amazing phenomenon continues at an increasing pace. In this course, the basic principles of magnetic resonance imaging (MRI), instrumentation, and various methods used in MRI are taught. Various research areas in this highly active field are discussed. Credit units: 3 ECTS Credit Units: 6. Aut (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, preconditioning circuits and instrumentation techniques. Credit units: 3 ECTS Credit Units: 6, Prerequisite: EEE 313 and EEE 351 and EEE 321.

EEE 491 Senior Project I
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. Aut (Staff)

EEE 492 Senior Project II
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. Aut (Staff) Spr (Staff)

GRADUATE COURSES

EEE 501 Linear System Theory

EEE 505 Introduction to Numerical Analysis
This course will provide a comprehensive introduction to numerical analysis for students not specializing in computer science or numerical analysis. The emphasis will be on making a broad review, so that the students will be able to choose the appropriate methods and apply them to their problems of interest. The topics to be covered will include direct and iterative numerical methods for systems of linear equations, least squares problems, determination of eigenvalues and singular values, methods for nonlinear equations, optimization problems, interpolation, numerical integration and differentiation, and numerical solution of ordinary and partial differential equations. Recent methods in numerical analysis. Credit units: 3 ECTS Credit Units: .

EEE 511 Telecommunication Electronics

EEE 512 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. Recent topics in microwave electronics. Credit units: 3 ECTS Credit Units: . Spr (A. Atalar)
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: 6.

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: 6.

EEE 516 Principles of Applied Superconductivity
Principles of conductivity, superconductivity phenomenon, properties of superconductors, large scale applications. Type I and type II superconductors and magnetic properties, transport properties, electrodynamics of superconductors, complex conductivity, principles of microscopic theories and applications, superconductor-normal and superconductor-superconductor tunneling, Josephson Junctions and electrical characteristics, RF effects Josephson Junctions, principles of superconductive interference devices applications. Credit units: 3 ECTS Credit Units: 6.

EEE 517 Theory and Modelling of Advanced Nanodevices
Advanced nanodevices course will concentrate on the state-of-the-art in nanoelectronic device concepts. At the beginning of the course a brief introduction to the physical principles needed to understand the devices to be discussed will be given. Then, the “classical” nanoelectronic devices (HEMT, HBT, nanometer scale MOSFET, and polymer/organic thin-film transistors) will be discussed. These devices will be investigated through analytical models and using two-dimensional device simulations. In the latter part of the course, we will concentrate on novel concepts in molecular/organic devices (nanotubes, molecular-atomic junctions), nanobiodevices (ion-channels, microarrays), spintronics, and data storage systems. recent topics on nanodevices. Credit units: 3 ECTS Credit Units: 6.

EEE 522 Digital Signal Processing Laboratory

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: 6.

EEE 524 Digital Signal Processing

EEE 525 Advanced Signal Processing
Deterministic and statistical signal modeling based on identification of ARMA, AR and MA parameters. Spectrum estimation: classical methods (FFT-based methods); modern methods (maximum likelihood, maximum entropy, AR and ARMA modeling, eigenvalue based techniques). Digital beamforming and array signal processing; LMS algorithm and adaptive arrays. Signal and image reconstruction: the method of projections onto convex sets (POCS); signal reconstruction from phase, magnitude; band-limited extrapolation. Credit units: 3 ECTS Credit Units: 6.

EEE 526 Digital Image Processing

EEE 527 Digital Coding of Waveforms
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: . Aut (H. Özaktas)

EEE 529 Photonics

EEE 530 Digital Communications Theory

EEE 531 Quantum Communications and Information Processing I
Quantization of electromagnetic field. Quantum states of light; coherence; squeezing. Quantum noise. Quantum information and entropy. Classical and quantum measurement of photons; Mandel’s formula; teleportation. Entanglement in atomic systems; Bell’s inequalities; Zeilinger protocol. Entanglement and quantum cryptography. Credit units: 3 ECTS Credit Units: 6.

EEE 532 Quantum Communications and Information Processing II

EEE 533 Random Processes

EEE 534 Wireless Communications

EEE 535 Optical Networks
Introduction to optical networks; propagation of signals in optical fiber; components in optical networks; Wavelength-Division Multiplexing; Routing and wavelength assignment; algorithms for network design; virtual topology design; optical protection and restoration; optical burst and packet switching. Credit units: 3 ECTS Credit Units: .

EEE 537 Wireless and Mobile Networks
This course introduces graduate students to fundamental techniques and protocols in first and second generation and emerging next generation wireless networks. Topics covered include fundamentals of radio propagation and channel models, transmission techniques for wireless communication, medium access control protocols, cellular network planning, mobility management, GSM system, mobile data networks (CDPD, SMS, GPRS), ad-hoc networks, wireless LANs (IEEE 802.11), wireless personal area networks (Bluetooth). Credit units: 3 ECTS Credit Units: 6.

EEE 538 Communication Network Analysis

EEE 542 Nonlinear Systems
passivity, small gain theorem. Singular Perturbations. Differential geometric methods. Recent topics on nonlinear systems. Credit units: 3 ECTS Credit Units: . Spr (Ö. Morgül)

EEE 543 Neural Networks

EEE 544 Robust Feedback Theory

EEE 545 Sampled Data Systems

EEE 547 Robotics and Sensing
Robot arm kinematics; robot arm dynamics; planning of manipulator trajectories; Range sensing (time-of-flight and triangulation systems) proximity sensing (optical, magnetic, capacitive inductive, ultrasonic) tactile sensing force and torque sensing Mobile robots (map building, path planning, navigation, obstacle avoidance, target identification and tracking). Recent topics and developments in sensing. Credit units: 3 ECTS Credit Units: .

EEE 551 Microwave Engineering

EEE 552 Antenna Engineering

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, physics of physical theory of diffraction (PTD). Curved surface diffraction. Credit units: 3 ECTS Credit Units: .

EEE 556 Computational Methods in Electromagnetics

EEE 573 Medical Imaging
The course teaches the fundamentals and applications of four medical imaging techniques: magnetic resonance imaging, ultrasound, nuclear medicine and X-ray computed tomography. Credit units: 3 ECTS Credit Units: 6.

EEE 574 Foundations of Magnetic Resonance Imaging
Nuclear magnetic resonance signals were first detected in 1945. Since then, research on this amazing phenomenon continues at an increasing pace. In this course, the basic principles of magnetic resonance imaging (MRI), instrumentation, and various methods used in MRI are taught. Various research areas in this highly active field are discussed. Students are introduced to the literature on magnetic resonance imaging. Credit units: 3 ECTS Credit Units: . Aut (E. Atalar)

EEE 580 Advanced Optoelectronics:innovative Design
EEE 581 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 an respiratory measurements, volume conductor circuits and instrumentation techniques. Recent topics and developments in biomedical signals and instrumentation. Credit units: 3 ECTS Credit Units:  .

EEE 591 Seminar
Seminars on recent topics in electrical and electronics engineering. Credit units: None ECTS Credit Units:  . Aut (V. B. Ertürk)

EEE 592 Seminar
Seminars on recent topics in electrical and electronics engineering. Credit units: None ECTS Credit Units:  . Aut (V. B. Ertürk)

EEE 599 Master’s Thesis
Credit units: None ECTS Credit Units:  . Aut (Staff) Spr (Staff)

EEE 603 Advanced Electromagnetic Theory I

EEE 621 Fundamentals of Three-Dimensional Television Systems

EEE 633 Coding Theory
This course covers error correction techniques used to protect digital information against noise. Topics covered include: (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:  .

EEE 634 Information Theory

EEE 699 Ph.D. Dissertation
Credit units: None ECTS Credit Units:  . Aut (Staff) Spr (Staff)
DEPARTMENT OF INDUSTRIAL ENGINEERING


Part-time: Ö. Tanrıkuşlulu.

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. 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 primary objective of the undergraduate IE program is to prepare our students as high achieving individuals who commit themselves to excellence, hard work, and superior performance. Whether they choose to work in the industry/service sector, or decide to stay in the academia, we want them to stand out as role models.

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></th>
<th>Credits / ECTS Credits</th>
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<tbody>
<tr>
<td><strong>Autumn Semester</strong></td>
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<tr>
<td>PHYS 101</td>
<td>General Physics I</td>
</tr>
<tr>
<td>MATH 101*</td>
<td>Calculus I</td>
</tr>
<tr>
<td>GE 101</td>
<td>Engineering Orientation</td>
</tr>
<tr>
<td>CS 111</td>
<td>Introduction to Computing in Engineering and Science</td>
</tr>
<tr>
<td>ENG 101</td>
<td>English and Composition I</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>PHYS 102</td>
<td>General Physics II</td>
</tr>
<tr>
<td>MATH 102*</td>
<td>Calculus II</td>
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<td>Course Code</td>
<td>Course Name</td>
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<tr>
<td>CS 112</td>
<td>Introduction to Object-Oriented Programming</td>
</tr>
<tr>
<td>ENG 102</td>
<td>English and Composition II</td>
</tr>
<tr>
<td>TURK 102</td>
<td>Turkish II</td>
</tr>
</tbody>
</table>

* Depending on the result of the calculus placement exam given at the beginning of the first year, students may take MATH 111 - MATH 112 - MATH 116 in place of MATH 101 - MATH 102.

**SECOND YEAR**

**Autumn Semester**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits / ECTS Credits</th>
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</thead>
<tbody>
<tr>
<td>IE 261</td>
<td>Computer-Aided Manufacturing</td>
<td>2 / 4</td>
</tr>
<tr>
<td>IE 271</td>
<td>Operations Analysis and Design</td>
<td>3 / 6</td>
</tr>
<tr>
<td>MATH 225</td>
<td>Linear Algebra and Differential Equations</td>
<td>4 / 6</td>
</tr>
<tr>
<td>MATH 250</td>
<td>Introduction to Probability</td>
<td>3 / 5</td>
</tr>
<tr>
<td>CS 281</td>
<td>Computers and Data Organization</td>
<td>3 / 6</td>
</tr>
<tr>
<td>HIST 201</td>
<td>History of Turkish Republic I</td>
<td>2 / 1</td>
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**Spring Semester**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits / ECTS Credits</th>
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</thead>
<tbody>
<tr>
<td>IE 202</td>
<td>Introduction to Modeling and Optimization</td>
<td>3 / 6</td>
</tr>
<tr>
<td>IE 262</td>
<td>Manufacturing Processes</td>
<td>4 / 6</td>
</tr>
<tr>
<td>MATH 260</td>
<td>Introduction to Statistics</td>
<td>3 / 6</td>
</tr>
<tr>
<td>HIST 202</td>
<td>History of Turkish Republic II</td>
<td>2 / 1</td>
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<tr>
<td></td>
<td>Math and Science Elective</td>
<td>3 / 6</td>
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<tr>
<td></td>
<td>Engineering Elective</td>
<td>3 / 6</td>
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**THIRD YEAR**

**Autumn Semester**

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<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits / ECTS Credits</th>
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</thead>
<tbody>
<tr>
<td>IE 299</td>
<td>Summer Training I</td>
<td>3 / 6</td>
</tr>
<tr>
<td>IE 303</td>
<td>Modeling and Methods in Optimization</td>
<td>3 / 6</td>
</tr>
<tr>
<td>IE 325</td>
<td>Stochastic Models</td>
<td>3 / 6</td>
</tr>
<tr>
<td>IE 342</td>
<td>Engineering Economic Analysis</td>
<td>3 / 6</td>
</tr>
<tr>
<td>IE 375</td>
<td>Production Planning</td>
<td>3 / 6</td>
</tr>
<tr>
<td>GE 301</td>
<td>Science Technology and Society</td>
<td>2 / 1</td>
</tr>
<tr>
<td>HUM 111</td>
<td>Cultures Civilizations and Ideas I</td>
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**Spring Semester**

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<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits / ECTS Credits</th>
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</thead>
<tbody>
<tr>
<td>IE 324</td>
<td>Simulation</td>
<td>3 / 7</td>
</tr>
<tr>
<td>IE 376</td>
<td>Production Information Systems</td>
<td>3 / 7</td>
</tr>
<tr>
<td>IE 380</td>
<td>Quality Assurance and Reliability</td>
<td>3 / 6</td>
</tr>
<tr>
<td>HUM 112</td>
<td>Cultures Civilizations and Ideas II</td>
<td>3 / 4</td>
</tr>
<tr>
<td>ENG 400</td>
<td>Technical and Professional Composition</td>
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</table>

**FOURTH YEAR**

**Autumn Semester**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits / ECTS Credits</th>
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</thead>
<tbody>
<tr>
<td>IE 399</td>
<td>Summer Training II</td>
<td>3 / 6</td>
</tr>
<tr>
<td>IE 477</td>
<td>Production Systems Design-Synthesis</td>
<td>3 / 6</td>
</tr>
<tr>
<td>IE Restricted Elective</td>
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<tr>
<td>Humanities and Social Sciences Elective</td>
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<td>3 / 6</td>
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<tr>
<td>Man/Econ Elective</td>
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**Spring Semester**

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<th>Course Code</th>
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</thead>
<tbody>
<tr>
<td>IE 478</td>
<td>Production Systems Design-Practice</td>
<td>3 / 6</td>
</tr>
<tr>
<td>IE 496</td>
<td>Seminar in Production Systems</td>
<td>3 / 6</td>
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<tr>
<td>IE Restricted Elective</td>
<td></td>
<td>3 / 6</td>
</tr>
<tr>
<td>Humanities and Social Sciences Elective</td>
<td></td>
<td>3 / 6</td>
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<tr>
<td>Man/Econ Elective</td>
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<td>3 / 6</td>
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<tr>
<td>Technical 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 Economics and Administrative and Social Sciences or the Faculty of Humanities and Letters or Faculty of Art, Design and Architecture. Technical 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 program 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, location theory, large scale optimization and parallel computing), stochastic systems (queueing models, maintenance, reliability and inventory control, modeling and optimization), simulation, statistics (estimation in stochastic systems, non-parametric analysis, Bayesian methods, analysis of censored and truncated data), manufacturing systems (advanced manufacturing technologies, robotics, flexible manufacturing systems, cellular manufacturing systems, machine scheduling, modeling and analysis of production systems), supply chain management, scheduling, production planning and control systems, operations research methods in finance.

Master of Science
Admission: Applicants are required to have a B.S. degree in Industrial Engineering or a related field of science and engineering. Turkish citizens must take the LES (Lisansüstü Eğitimi Giriş Sınavı - Postgraduate Education Entrance Examination) and have a minimum of 45 points in the quantitative section of the exam. GRE scores are required for international applicants. Non-native speakers of English are required to submit a proof of satisfactory knowledge of English. Admission is granted based on grade point average, LES or GRE scores, letters of recommendation, statement of purpose, interview, and availability of a faculty member who is willing to supervise the student’s research. Scholarships are provided for students with better credentials. (Also refer to the “Graduate Admissions” section in the introduction of this catalog for the graduate admissions requirements).

Degree Requirements: In addition to at least 24 credit units of course work, the M.S. degree candidate must take one research course, and prepare and successfully defend a thesis. The normal duration of M.S. study is four semesters. However, this may be extended for up to two more semesters upon approval of the Institute of Engineering and Science.

Doctor of Philosophy
Admission: Applicants are required to have a B.S. degree or a M.S. degree in Industrial Engineering or a related field of science and engineering. Turkish citizens must take the LES (Lisansüstü Eğitimi Giriş Sınavı - Postgraduate Education Entrance Examination) and have a minimum of 45 points in the quantitative section of the exam. GRE scores are required for international applicants. Non-native speakers of English are required to submit a proof of satisfactory knowledge of English. Admission is granted based on grade point average, LES or GRE scores, letters of recommendation, statement of purpose, interview, and availability of a faculty member who is willing to supervise the students research. Scholarships are provided for students with better credentials. (Also refer to the “Graduate Admissions” section in the introduction of this catalog for the graduate admissions requirements).
Degree Requirements: Each student's Ph.D. program is individually planned with a faculty advisor.

The students who are admitted to the Ph.D. program with a M.S. degree should successfully complete one seminar course and 8 courses of 24 credit units, pass a qualifying examination, and prepare and defend a dissertation based on original research. The qualifying exam must be passed within the first three semesters of entry into the program. The maximum duration for Ph.D. study for applicants with M.S. degree is 8 semesters but can be extended up to four semesters under special circumstances by the approval of the Institute of Engineering and Science.

The students who are admitted to the Ph.D. program with a B.S. degree should successfully complete two seminar courses and 16 courses of 48 credit units, pass a qualifying examination, and prepare and defend a dissertation based on original research. The qualifying exam must be passed within the first five semesters of entry into the program. The maximum duration for Ph.D. study for applicants without a M.S. degree is 10 semesters but can be extended up to four semesters under special circumstances by the approval of the Institute of Engineering and Science.

COURSE DESCRIPTIONS

UNDERGRADUATE COURSES

IE 202 Introduction to Modeling and Optimization
A general overview of operations research, with selected applications from engineering and management systems, and interdisciplinary areas. The methodology of mathematical modeling and its relation to problems in industrial, commercial, and public systems. Introduction to linear programming: the simplex method, duality, sensitivity analysis, and related topics. Network models and project scheduling. Credit units: 3 ECTS Credit Units: 6, Prerequisite: MATH 225. Spr (O. Ekin-Karahan, E. A. Yildirim)

IE 261 Computer-Aided Manufacturing
Principles of engineering graphics with emphasis on laboratory use of AutoCAD software programs. Plane geometry, joining of arcs, principles of orthographic projection, isometric and oblique drawing, principles of sectioning, Wire-frame Modeling. Credit units: 2 ECTS Credit Units: 4. Aut (F. Eren)

IE 262 Manufacturing Processes
Survey of machining, casting, welding and finishing processes. Analysis of product and process design together with material selection for manufacturing. Special emphasis given to economics of metal cutting. Introduction to numerical control, automation and manufacturing systems. Laboratory use of traditional manufacturing processes, CNC programming, robotics, FMS cell controller, and related software. Credit units: 4 ECTS Credit Units: 6, Prerequisite: IE 261. Spr (F. Eren)

IE 271 Operations Analysis and Design
The course is designed to expose the student to traditional industrial engineering concepts and functions in the design, improvement, and analysis of man-machine systems in the context of a manufacturing and production environment. Topics covered are: industrial organization, work measurement procedures, motion and time study, and production and operation charts. Facilities planning and layout design with computer applications. Laboratory use of related software. Credit units: 3 ECTS Credit Units: 6. Aut (O. Alp, M. R. Taner)

IE 299 Summer Training I
A minimum of four weeks (20 working days) for this practice is required in a manufacturing organization. The main objective is to observe a manufacturing company in an original setting. The details of the requirements and further information can be found at: http://www.ie.bilkent.edu.tr/~ie299 Credit units: None ECTS Credit Units:, Prerequisite: IE 271 and IE 262. Aut (M. R. Taner) Spr (M. R. Taner)

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 (O. Ekin-Karahan, H. Yaman)

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: 3 ECTS Credit Units: 7, Prerequisite: CS 111, Corequisite: MATH 260. Spr (M. M. Fadiloglu, K. Gokbayrak)
IE 325  **Stochastic Models**  
*Credit units: 3 ECTS Credit Units: 6, Prerequisite: MATH 250. Aut (N. Erkip, M. M. Fadilgilu)*

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 (M. Akgül, K. Gökbayrak)*

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 inventory and lot-sizing models; multi-echelon supply networks; machine scheduling and capacity planning.  
*Credit units: 3 ECTS Credit Units: 6, Prerequisite: IE 202. Aut (A. Şen, A. Topal)*

IE 376  **Production Information Systems**  
The role of computers and data bases in production systems. Fundamental concepts in developing integrated production management system 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: CS 281 and IE 375. 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 (M. R. Tani, A. Topal)*

IE 399  **Summer Training II**  
This training can be held either in a manufacturing or service organization for a minimum of four weeks (20 consecutive working days). It is required to formulate an IE problem and offer a solution. The details of the requirements and further information can be found at: http://www.ie.bilkent.edu.tr/~ie399  
*Credit units: None ECTS Credit Units: , Prerequisite: IE 299. Aut (A. Topal) Spr (A. Topal)*

IE 400  **Principles of Engineering Management**  
This course is designed to introduce the engineering students to economic and management concepts. Topics will include economic concepts such as; cash flow, interest rates, rate of return, demand supply relations, product pricing, taxes, inflation, and related subjects; and management analysis such as management layers, network analysis, project management via CPM/PERT networks, optimization concepts, linear programming, and decision analysis. The course also includes use of related software.  
*Credit units: 3 ECTS Credit Units: 6. Aut (J. Yun)*

IE 411  **Mathematical Programming**  
Nonlinear optimization, convexity, Karush-Kuhn-Tucker conditions, line search, constrained optimization, quadratic, programming, large scale linear programming and decomposition, polyhedral analysis.  
*Credit units: 3 ECTS Credit Units: 6.*

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. Aut (I. Sabuncuğlu)*

IE 421  **Introduction to Stochastic Processes**  
*Credit units: 3 ECTS Credit Units: 6.*

IE 422  **Dynamic Programming**  
Deterministic and discrete-time stochastic dynamic programming; principle of optimality, forward and backward formulations, Markov decision processes under discounted and average payoff criteria, bandit problems, stochastic games. Applications; shortest path problems, resource allocation, stock options, inventory control, maintenance problems, knapsack and assignment problems.  
*Credit units: 3 ECTS Credit Units: 6.*
IE 425  Internet Applications and Protocols

IE 441  Cost Analysis and Control

IE 444  Operations Research in Finance
This course aims to introduce industrial engineering students to mainstream optimization tools and models used in modern finance. It will begin with a review of pertinent optimization technology, and develop from scratch basic financial optimization models. GAMS and XPRESS-MP modeling and optimization software systems will be used in homework assignments. Credit units: 3 ECTS Credit Units: 6. Aut (M. Ç. Pınar)

IE 445  Fundamentals of Systems Engineering
This course provides an overview of systems engineering. The course coverage includes life cycle of systems and their costs, planning of systems engineering activities, special engineering areas (reliability, maintainability, safety, etc.) and their integration into development activities, conceptual design of systems (functional analysis, synthesis, evaluation), planning of systems engineering activities by using work breakdown structures, standards, specifications and configuration management, technical reviews, tests, evaluation and technical performance measurement, management of risk and integrated logistics support of systems. Credit units: 3 ECTS Credit Units: 6.

IE 461  Supply Chain Management
A supply chain consists of all stages involved, directly and indirectly, in fulfilling a customer request. Supply chain management deals with the management of materials, information and financial flows in the supply chain to maximize total profitability. The topics that are covered in this course include review of inventory management and risk pooling, logistics network configuration, the value of information in supply chains, distribution strategies and strategic alliances, supply chain contracts, international issues in supply chain management, coordinated product and supply chain design, information technology for supply chain management. Credit units: 3 ECTS Credit Units: 6. Aut (A. Şen) Spr (N. Erkip)

IE 464  Inventory Theory
This course focuses on various inventory control problems in service and manufacturing environments. First, deterministic models and their extensions are introduced. Single and multi item problems, quantity discount case, effect of inflation, classification of inventories are discussed. Second part of the course focuses on finite and infinite horizon problems with stochastic demand. Models for periodic and continuous review policies, coordinated replenishment problems, perishable items are examined. Finally, multi echelon inventory problems in supply chain context are introduced. Credit units: 3 ECTS Credit Units: 6. Spr (O. Alp)

IE 474  Facility Layout and Location
This course addresses issues that arise in facilities planning. Main issues addressed include optimally choosing the locations of single or multiple facilities and layout design. The focus is on analytical methods for solving such problems. Credit units: 3 ECTS Credit Units: 6. Aut (B. Tansel)

IE 477  Production Systems Design-Synthesis
This course is a project based synthesis of the techniques and methodologies of operations research and industrial engineering covered in other courses. The projects are concerned with the design of complex systems and may involve modeling and analysis of manufacturing and service systems based on demand, resource, capacity, location, computer integration, and information requirements. In addition, this course aims to improve communication, organizational, and group skills of the students, and emphasizes the role of Internet and Web in developing professional development and technical collaboration. Credit units: 3 ECTS Credit Units: 6. Prerequisite: IE 324, IE 325, and IE 376. Aut (İ. Sabuncuğlu, B. Yetiş)

IE 478  Production Systems Design-Practice
The purpose of this interactive course is to apply the methods, studied in earlier courses and synthesized in the prerequisite course IE 477, to solve real world problems. The problems are jointly determined by the department and representatives from the industry. They may include: Design of production information systems, inventory problems, capacity expansion and bottleneck identification, schedule operations, distribution requirements planning, etc. Students are required to carry out a semester long industrial project in teams. Credit units: 3 ECTS Credit Units: 6. Prerequisite: IE 477. Spr (İ. Sabuncuğlu, B. Yetiş)

IE 479  Distribution Logistics
This course focuses on the distribution of goods and services from their points of creation to their customers.
Designing the logistics network with main emphasis on location models will constitute the first part of the course. In the second part of the course planning and controlling of freight-transportation will be covered. Practical aspects of the models and methodologies covered will be emphasized through computational assignments. Credit units: 3 ECTS Credit Units: 6. Aut (B. Yetiş)

IE 490  
Introduction to Research in IE and OR  
The purpose of this course is to introduce students to research techniques in industrial engineering and operations research. Each student is assigned a research topic that is suitable to his/her academic background and interests. Under the supervision of a departmental faculty member, the student will tackle the problem and try to find a satisfactory solution. Written and oral presentations of results are required. Credit units: 3 ECTS Credit Units: 6. Prerequisite: Consent of the Department. Aut (O. Alp)

IE 491  
Introduction to Research in IE and OR II  
This course is a continuation of IE 490 Introduction to Research in IE and OR. It is designed for students who want to continue to work on the same problem to get deeper and extended results. The work will continue under the supervision of the same faculty member who has previously supervised the student’s work in IE 490. The course will be offered in the spring semester and is open only to students who have completed the required work in IE 490 and who have obtained the approval of the supervising faculty member for continuation of the work. Credit units: 3 ECTS Credit Units: 6. Spr (O. Alp)

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: . Prerequisite: Senior standing in IE. Spr (B. Yetiş)

GRADUATE COURSES

IE 507  
Discrete Mathematical Models  
This course is designed to illustrate both the applications of discrete mathematics to a broad range of topics in the social, biological and environmental sciences, and the influence of those applications on the development of mathematics. The use of mathematical modeling will be emphasized by encompassing tools such as graphs, weighted digraphs, Markov chains and n-person games. Credit units: 3 ECTS Credit Units: 6.

IE 513  
Linear Programming  

IE 514  
Networks Flows  

IE 515  
Convex Analysis  
Convex sets in IR and their basic properties, separation of convex sets, properties of convex polyhedra (and polytopes). Convex functions continuity and differentiability properties, subdifferentiability, duality of convex sets, Fenchel dual of a convex function, bipolar theorem. Convex programming, dual convex programs, perturbation and lagrangian approaches to duality, the connection between the two approaches, saddle point theorems. Applications of convex analysis: inequalities, interior-point methods, approximation, merit functions. Credit units: 3 ECTS Credit Units: 6.

IE 518  
Discrete Optimization  

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: 6.

IE 525 Advanced Statistics

IE 527 Optimal Control
Optimal control problems and dynamic programming based solutions. Principle of optimality, the maximum principle, state constraints and terminal conditions, sufficiency conditions, applications in finance and manufacturing. Credit units: 3 ECTS Credit Units: .

IE 542 Investment Decision Modeling
The meaning of investment process in general and for creating systems to produce products and services in particular. Classification of investment decision problems with respect to context and the precision of informational support, i.e. certainty, risk and uncertainty. A general mathematical structure for modeling for investment decisions. Deterministic, stochastic, combinatorial, sequential and dynamic investment decision models, and optimization techniques used for their solutions. A mathematical basis for deriving suitable value measures for evaluating investment alternatives and derivation of such measures. Types of risk taking as the fundamental dimension of a class of investment decision making situations. Credit units: 3 ECTS Credit Units: 6. Spr (M. Ç. Pınar)

IE 561 Manufacturing Systems
Application of systems analysis and industrial engineering to the design, planning, and analysis of manufacturing systems. Characteristics of flexible manufacturing systems (FMS). Elements of systems and their interaction with each other. Consideration of technical and economic aspects of equipment and process design. Integration aspects of the elements of manufacturing systems. Credit units: 3 ECTS Credit Units: 6.

IE 563 Game Theory With Applications in Operations Management
Introduction to Game Theory: Pre-commitment, the normal form, the extensive form; static games with complete information: pure strategy nash equilibrium, mixed strategy nash equilibrium; dynamic games with complete information: sub-game perfect equilibrium; games with incomplete information: bayesian nash equilibrium, perfect bayesian nash equilibrium; applications: oligopoly, supply chain management, queuing, competitive location. Credit units: 3 ECTS Credit Units: 6. Prerequisite: Familiarity with probability and optimization and instructor’s permission.

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: 6. Spr (N. Erkip)

IE 572 Production Planning Systems Design
Theoretical and practical issues in the design of systems for planning and control of production activity. Critical examination of tools and techniques of industrial engineering and operations research applicable to integrated manufacturing management. Credit units: 3 ECTS Credit Units: 6. Spr (J. Yun)
IE 573 Theory of Machine Scheduling

IE 574 Location and Layout Optimization
Single or multiple facilities location in the plane with minimum or minimax criteria. Discrete or continuous layout optimization. Single facility network location. Applications in public service, production, distribution, warehousing, emergency service, flexible manufacturing. Credit units: 3 ECTS Credit Units: 6.

IE 576 Optimization Models and Methods in Network Design
This course deals with network design problems arising in telecommunications, transportation and supply chains. It gives an overview of optimization models and solution techniques for basic problems. It covers multicommodity flows, common topologies like cliques, paths, trees and rings, fixed charge network design problems, capacity planning and quality issues. Credit units: 3 ECTS Credit Units: 6.

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: 6. Spr (B. Tansei)

IE 579 Selected Topics in Locational Research
The primary emphasis of this course is to involve interest in various topics in locational research. Topics covered in the course depend on the research interests of the instructor and may include some well-known location problems as well as lesser known but more contemporary topics. The course will focus both on modeling aspects and solution algorithms. In each topic the primary emphasis will be a research frontiers and directions. Credit units: 3 ECTS Credit Units: 6.

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: 6. Aut (A. Şen, H. Yaman) Spr (A. Şen)

IE 599 Master’s Thesis
Credit units: None ECTS Credit Units: 24. Aut (Staff) Spr (Staff)

IE 613 Advanced Linear Programming

IE 614 Nonlinear Programming

IE 660 Performance Analysis of Manufacturing Systems
The design and performance issues in production, transfer lines, production/inventory systems, network of production/inventory systems, and flexible manufacturing systems. Phase type processing times, failures and service completion processes. Buffering and blocking issues. Decomposition methods. Control policies in pure inventory and production/inventory systems. Credit units: 3 ECTS Credit Units: 6.

IE 699 Ph.D. Dissertation
Credit units: None ECTS Credit Units: 24. Aut (Staff) Spr (Staff)
The Faculty of Humanities and Letters comprises five departments:

- American Culture and Literature
- Archaeology and History of Art
- English Language and Literature
- Philosophy
- Turkish Literature

The departments of American Culture and Literature, Archaeology and History of Art, English Language and Literature and Philosophy 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 and History of Art has an M.A. program.

The Faculty also houses a number of non-degree-granting units which offer university-wide service courses in First Year English and Composition, Foreign Languages (French, German, Italian, Japanese, Russian and Spanish), History of the Turkish Republic and Turkish Language and Literature. The Cultures, Civilizations and Ideas program offers a year-long intensive course to sophomore students.

**ACADEMIC STAFF**

İknur Aka, Instructor
B.A., German Language and Literature, Hacettepe University, 1982.

Varol Akman, Professor
Ph.D., Electrical, Computer, and Systems Engineering, Rensselaer Polytechnic Institute, 1985. Artificial intelligence, logic, philosophy of language, pragmatics, the Internet and society.

David De Kanter Arndt, Visiting Assistant Professor

İsmail Aşıkoğlu, Instructor

Sema Aydın, Instructor
M.A., German Language and Literature, Hacettepe University, 1989.

İrem Balkır, Assistant Professor
Ph.D., Cultural and Critical Studies, University of Pittsburgh, 1993. Critical theory, cultural studies, cosmopolitanism, international Cold War culture, Border cultures of the new Europe.

Louise Barry, Visiting Assistant Professor
Ph.D., French Literature, Emory University, 2002. Aesthetics, cultural history and literature.

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, Instructor
Yehezkel S. Berkovski, Visiting Assistant Professor
Ph.D., Philosophy, Oxford University, 2005. Logical positivism, philosophy of logic, Kant, possible worlds, philosophy of science.

Thomas Martin Besch, Instructor
Ph.D., Philosophy, Oxford University, 2004. Practical reasoning, moral and political philosophy, Rawls, Hare, Kant.

Arzu Bezgin, Instructor

Geoffrey Scott Bowe, Assistant Professor
Ph.D., Philosophy, McMaster University, 1998. Greek philosophy, history of philosophy, political philosophy, ethics, value theory.

Gabriel Brahm, Visiting Assistant Professor
Ph.D., Literature and Culture Studies, University of California at Santa Cruz, 1999. Political theory, American literature, mass media.

Dennis Bryson, Assistant Professor

Duncan Chesney, Visiting Assistant Professor
Ph.D., Comparative Literature, Yale University, 2003. Modernism, film, french, critical theory, cultural studies.

Benni Claasz Coockson, Instructor

Berna Cordan, Instructor

Costantino Costantini, Visiting Assistant Professor
Ph.D., Comparative Literature, Emory University, 2001. Classics, French and Italian Literature, theory.

Joshua Cowley, Visiting Assistant Professor
Ph.D., Philosophy, University of Arizona, 2004. Philosophy of mind, epistemology, cognitive science.

M. Hamit Çalışkan, Assistant Professor

Gülay Çayan, Instructor
B.A., German Language Teaching, Hacettepe University, 1992.

E. Lale Demirtürk, Associate Professor

Marianella Gutierrez Erdem, Instructor
B.A., Spanish Language Teaching, Corazon de Maria University, 1970.

Yaşar Ersoy, Instructor

Charles Gates, Assistant Professor
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

Daren I. 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.

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.

Engin Karacaören, Instructor
Ph.D., Spanish Language and Literature, Ankara University, 2002.

Burcu Karapıçak, Instructor
M.A., Graduate School of Education, Bilkent University, 2002.

Rüçhan Kayalar, Instructor

Thomas Kelso, Visiting Assistant Professor

Valerie Kennedy, Assistant Professor

Martina Kolb, Visiting Assistant Professor
Ph.D., Comparative Literature, Yale University, 2005. International modernism, romanticist and modernist poetry, theories of representation, the Mediterranean as literary and cultural landscape, philosophy, literary theory and criticism, psychoanalysis and literature.

Ezel Kural-Shaw, Visiting Professor

Gülsen Kurtulus, Instructor
Ph.D., English Literature, Bilkent University, 1997. Modern English drama, 16th and 17th century English drama, English history, literary theory and criticism.

Anthony Lake, Instructor
Ph.D., English Literature, University of Sussex, 1996. Victorian literature, travel writing, romanticism, literature and naturalism, literary theory.
Laurent Mignon, Assistant Professor
Ph.D., Modern Turkish Literature, London University, 2002. 19th and 20th century’s Turkish literature, literary translations, travel literature.

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
Ph.D., Philosophy, State University of New York at Buffalo, 1999. History of Philosophy, Ancient Philosophy (Plato), Ancient Historiography, Philosophy of History.

Süha Oğuzertem, Assistant Professor
Ph.D., Comparative Literature, Indiana University, 1994. Modern Turkish literature, comparative literature, literary theory, criticism.

Saeko Ohashi, Instructor

Sare Öz, Instructor
B.A., Turkish Literature, Gazi University, 1960.

Aynur Özcan, Instructor
B.A., Spanish Language and Literature, Ankara University, 1980.

Özlem Özduran, Instructor

Ahmet Özer, Instructor
B.A., Turkish Language and Literature, Anadolu University, 1992.

İlknur Özgen, Associate Professor

Gürcan Özköklü, Instructor

Mine Özyurt Kılıç, Instructor
M.A., English Language and Literature, Bilkent University, 1994.

Rasim Özyürek, Instructor
Ph.D., Turkish Language Teaching, Baku State University, 1998.

Stephanie Palmer, Assistant Professor

Julie Park, Visiting Assistant Professor
Ph.D., Comparative Literature, U.C. Irvine, 1999. Modern Fiction, Psychoanalytic Approaches to Literature, Literary Theory Women’s Studies, Film Studies.

Donald Bruce Randall, Associate Professor

Andrea Rehberg, Assistant Professor

Özlem Sçaçak, Instructor
Seçil Saraçoğlu, Instructor

Engin Sezer, Visiting Associate Professor
Ph.D., Linguistics, Harvard University, 1991. Turkish and Turkic linguistics, old Turkish literature.

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

Şengül Soyteşir Şentürk, Instructor
Ph.D., German Language and Literature, Hacettepe University, 1999.

Engin Soyupak, Instructor
B.A., French Language Teaching, Gazi University, 1976.

Mark Edward Steen, Instructor

Muammer Şanlı, Instructor

Sema Taşkin, Instructor
Ph.D., English Literature, Hacettepe University, 1999. 20th century poetry, romantic poetry, Victorian literature.

Aysel Tek, Instructor

Nuran Tezcan, Assistant 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.

Lucas Thorpe, Instructor

Helga Toker, Instructor

İbrahim Turan, Instructor

Zelda Turan, Instructor
B.A., French Language and Literature, Hacettepe University, 1982.

Nurhan Turgut, Instructor
M.A., German Language and Literature, Hacettepe University, 1996.

Simon Wigley, Assistant Professor

William Wringe, Assistant Professor

Hilmi Yavuz, Adjunct Senior Lecturer

Vedat Yazıcı, Instructor

Thomas Zimmermann, Instructor

**PART-TIME ACADEMIC STAFF**

Esat Arslan, Ph.D., History of Turkish Republic, Ankara University, 1989.

Deniz Canan Atasoy, B.A., Turkish Language and Literature, Ankara University, 1993.
Mehmet Aydın, B.A., Turkish Language and Literature, İstanbul University, 1948.
Nurgül Cumaloğlu, B.A., Turkish Language and Literature, İstanbul University, 1963.
Neşe Çetiner, B.A., Turkish Language and Literature, İstanbul University, 1974.
Adil Dağistan, Ph.D., History of Turkish Republic, Hacettepe University, 1992.
Ekin Ekinci, B.A., Turkish Language and Literature, Hacettepe University, 2003.
Temuçin Faiq Ērtan, Ph.D., History of Turkish Republic, Hacettepe University, 1993.
Seriye Gençeliyeva Tamer, Ph.D., History, Tbilisi State University, 1987.
Birsen Gökçe, Ph.D., Sociology, Ankara University, 1961.
Ahmet Şamil Gürer, History, Middle East Technical University, 1990.
Ayla Hağ, B.A., German Language and Literature, Metodij University, 1994.
Oktay Ikinci, B.A., Turkish Language and Literature, Gazi University, 1988.
Yusuf Kaya, Ph.D., History, Selçuk University, 1990.
Yaşar Kaynak, B.A., Turkish Language and Literature, Ankara University, 1965.
Leman Müftüoğlu, B.A., Turkish Language and Literature, İstanbul University, 1977.
Öcal Öğuz, Ph.D., Gazi University, 1991. Turkish folk literature.
Yücel Özkan, Ph.D., History, Ankara University, 1968.
Mehmet Saray, Ph.D., History, İstanbul University, 1966.
Yusuf Sarıyan, Ph.D., History of Turkish Republic, Hacettepe University, 1992.
Idil Simay, B.A., Turkish Language and Literature, Ankara University, 1976.
Ayhan Sendöl, B.A., Turkish Language and Literature, Ankara University, 1966.
Tansal Tokat, B.A., Turkish Language and Literature, Ankara University, 1970.
Neriman Tongul, Ph.D., History of Turkish Republic, Hacettepe University, 1993.
Himmet Umuncu, Ph.D., English Language and Literature, King’s College, University of London, 1974. Drama, Renaissance literature, critical theory.
Celalettin Yavuz, Turkish Naval Academy, 1974.

GENERAL COURSES

HUMANITIES COURSES

HUM 121  The Mediterranean World to 1600
The course examines the dynamics of humans, time, and space in the shaping of cultures and civilizations in the three continents bordering the Mediterranean Sea. Topics include interdisciplinary themes that connect with one another through the medium of history. Fields such as archaeology, art architecture, drama, geography, and religion become integrated to develop student skills in analysis, critical thinking, and self-expression. Credit units: 3 ECTS Credit Units: 6. Aut (E. Kural-Shaw)

HUM 122  The Mediterranean World and Beyond, 1600 to the Present
The aim of this course is to make students aware of issues and questions, encourage them to seek answers, and follow ramifications by focusing on the scientific revolution, French Revolutionary era and nationalism, industrialization, imperialism, colonialism, Darwin-Marx-Freud, “modernization” models and variations, globalization of concerns (such as ecology, communication and implications) and the issue of post-modern. Credit units: 3 ECTS Credit Units: 6. Spr (E. Kural-Shaw)
HUM 321  The Enlightenment and the French Revolution
The Enlightenment also known as the Age of Reason, represents the spreading of trust in science and scientific methodology and the intent to apply that knowledge towards the improvement of humankind. The writings of the period manifest a critical spirit aimed at reforming society and its institutions. From encouragement of technology to emphasis on human rights, this period shapes our views of modernity. Writings of the period focus on issues that are still significant today: nature of the representative government, tolerant secularism, reform of the penal system, free trade, ethics, and theory of knowledge. Credit units: 3 ECTS Credit Units:.

PROGRAM IN CULTURES, CIVILIZATIONS AND IDEAS


Cultures, Civilizations, and Ideas is a year-long, intensive course that introduces students to a variety of social, cultural, political and ethical questions that have intrigued and perplexed people around the world over the centuries and continue to do so today. In broad terms, the course sequence aims to prepare students for a life of intellectual exploration and expression, going beyond professional training. This course aims to develop analytical skills and creative abilities that are not career specific, but are crucial for any successful professional life. While not merely a survey of canonical texts, the course investigates comparatively what thinkers in philosophy, literature, and social thought have said about the nature of social experience, justice, the state and power.

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, 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 102. Aut (D. D. K. Arndt, L. Barry, G. Brahm, D. Chesney, C. Costantini, D. I. Hodson, T. Kelso, M. Nakeeb, J. Park, A. Rehberg) Spr (Staff)

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, 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. Spr (Staff)

HUM 291  Selected Topics in the Humanities
These courses are designed to allow students to explore and focus on various topics in the Humanities and Social Sciences in depth and detail, and from an interdisciplinary perspective. Such courses have the objective of furthering the critical reading, writing, and analytic skills fostered in other CCI courses. These courses will engage in study of themes, issues, or concepts from fields such as Comparative Literature, Philosophy, History, Art History, Film Studies, Political Thought, and many other disciplines. Two separate sections of CCI Selected Topics courses will be offered every Spring semester. Courses will be taught in seminar format, and are open to all Bilkent students as a general elective. Credit units: 3 ECTS Credit Units:.

HUM 435  Dual Revolution and Democracy
The course examines the period of the French Revolution and the Industrial Revolution as one of intellectual and economic upheavals that stem from preceding scientific and technological changes which inform the concept of modernity as well the process by which the masses gain recognition as voices-voters who expect to share in political decision-making. Key topics are the Enlightenment, institutional changes during the French Revolution, and progress of industrialization and franchise in Great Britain. Students are expected to carry out directed research in which they compare findings related primarily to France and England to what the experience was in
another country at that time or later. Many of the topics to be analyzed in the course (such as secularization, industrialization, demographic change, urbanization, education, reform movements, free trade ...) have relevance to current issues in Turkey. Credit units: 3 ECTS Credit Units.

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 Units: 1. Aut (İ. Aşıkoglu, M. Aydın, M. Cankara, B. Cordan, N. Cumaloğlu, N. Çetiner, E. Ekinci, A. T. Görgü, S. Göçü Ezen, E. Güler, O. İkinci, B. Karapıçak, Y. Kaynak, L. Müftüoğlu, S. Öz, J. Özata, A. Özer, R. Özyürek, E. Pelvanö˘glu, A. Şendöl, T. Tokat, Ç. Ulker, V. Yazıcı) Spr (İ. Aşıkoglu, M. Aydın, N. Çetiner, A. T. Görgü, S. Göçü Ezen, E. Güler, O. İkinci, Y. Kaynak, A. Özer, İ. Simay, T. Tokat, V. Yazıcı)

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, Prerequisite: TURK 101. Aut (İ. Aşıkoglu, M. Aydın, N. Cumaloğlu, A. T. Görgü, S. Göçü Ezen, E. Güler, O. İkinci, B. Karapıçak, Y. Kaynak, A. Özer, A. Şendöl, Ç. Ulker) Spr (İ. Aşıkoglu, M. Aydın, B. Cordan, N. Cumaloğlu, N. Çetiner, E. Ekinci, A. T. Görgü, S. Göçü Ezen, E. Güler, O. İkinci, B. Karapıçak, Y. Kaynak, L. Müftüoğlu, S. Öz, N. Özer, A. Özer, R. Özyürek, A. Şendöl, T. Tokat, V. Yazıcı)

TURK 103 Turkish Usage and Style I
Aims to show the students the structure of the Turkish language and to develop their skills in using the language effectively. In addition to the subjects covered in TURK 101 and 102, by focusing upon basic grammar and doing textual analysis the students are expected to appreciate the richness of the Turkish language. Credit units: 3 ECTS Credit Units: 1. Aut (V. Yazıcı)

TURK 104 Oral and Written Practice of Turkish II
The outline of the course is designed to emphasize the basic concepts of the Turkish language by presenting selected texts from Turkish and world literature. Main goal of the course is to improve the creative and critical thinking skills of the students, as well as use of the Turkish language correctly and effectively in written and oral expression. Credit units: 3 ECTS Credit Units: 2, Prerequisite: TURK 101. Aut (A. T. Görgü) Spr (A. T. Görgü)

TURK 111 Turkish as a Second Language 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 (D. C. Atasoy, N. Mumcu-Öz) Spr (D. C. Atasoy)

TURK 112 Turkish as a Second Language 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. Spr (D. C. Atasoy)

TURK 113 Turkish as a Second Language 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. Mumcu-Öz)

TURK 125 Rhetoric
Students are expected to choose two of the works listed below and make a comparative analysis. The works are: Körleme (Alias Canetti), Sevgili Arszülüm (Latife Tekin), Cevdet Bey ve Qullari (Orhan Pamuk), Venedikte Ölüm (Thomas Mann), and Gece (Bilge Karasu). Credit units: 3 ECTS Credit Units: 1.
TURK 201 Ottoman Turkish I
This course gives an introduction to the reading and writing systems and grammar of Ottoman Turkish through close reading of graded selections from poems, essays, short stories and archival materials printed in the late Ottoman and early Republican periods. Credit units: 3 ECTS Credit Units: . Aut (N. Gök)

TURK 202 Ottoman Turkish II
This course gives an introduction to the reading and writing systems and grammar of Ottoman Turkish through close reading of graded selections from poems, essays, short stories and archival materials printed in the late Ottoman and early Republican periods. Credit units: 3 ECTS Credit Units: . Spr (N. Gök)

TURK 203 Ottoman Turkish III
This course is devoted to the reading and understanding of texts focusing on key issues in late Ottoman and early Republican Turkish history. The course aims to develop reading skills in Ottoman Turkish and to examine important texts written between 1700 and 1928. Credit units: 3 ECTS Credit Units: . Aut (N. Gök)

TURK 204 Ottoman Turkish IV
This course emphasizes the different types of Ottoman writing in the elaborate high style of classical Ottoman (15th-20th centuries). Selections from manuscript are used to enable students to read texts they are likely to encounter in their historical research. Some documents will be selected from Ottoman archives in Nasih, Rik’a, Dihâni scripts. Credit units: 3 ECTS Credit Units: . Spr (N. Gök)

TURK 401 Turkish Grammar
The aim of this course is to make an introduction to Turkish grammar; to discuss the importance of language in reading and writing; to make a revision of the principles of spelling and analyze word groups and different kinds of sentences. Credit units: 4 ECTS Credit Units: .

TURK 403 Turkish Grammar I
Definition of language and views about its origins. Phonetics of Turkish language. Types of suffixes. Intonation of speech patterns. Credit units: 4 ECTS Credit Units: .

TURK 404 Turkish Grammar II
Parts of speech (noun, verb, adjective, pronoun, adverb, article, conjunctions). Syntax and, sentence structure of Turkish language with discussion different views. Credit units: 4 ECTS Credit Units: .

HISTORY OF TURKISH REPUBLIC UNIT
E. Arslan (Coordinator).


COURSE DESCRIPTIONS

HIST 201 History of Turkish Republic I
The Ottomans; emergence, rise, decline and fall of the Ottoman state; intellectual movements during the Ottoman period; “Constitutional Period”; “Reformation Period”; Reformation and Reorganization Decrees; causes of World War I; World War I and its aftermath; Turkish War of Independence; Treaty of Lausanne and establishment of Turkey as an independent republic under Kemal Atatürk. Credit units: 2 ECTS Credit Units: 1. Aut (M. Albayrak, E. Arslan, Z. Çelikkol, B. Gökçe, G. Güneş, G. Gür, Y. Kaya, C. Kemal, C. Özgül, E. Sanalan, M. Saray, N. Tongul, C. Yavuz) Spr (G. Gür, A. Ş. Gürer, Y. Kaya, Y. Özкрыл)

HIST 202 History of Turkish Republic II
The period from 1923 (Treaty of Lausanne and establishment of Turkish Republic) to 1938 (Atatürk’s death): efforts towards establishing a modern state; legal, social and cultural reforms; economic and foreign policy during the republican period; domestic politics and political parties; nature, principles and aims of Kemal Atatürk’s major policies and reforms. Credit units: 2 ECTS Credit Units: 1, Prerequisite: HIST 201. Aut (G. Gür, A. Ş. Gürer, Y. Kaya, Y. Özelrya) Spr (E. Arslan, Z. Çelikkol, A. Dağistan, T. F. Ertan, B. Gökçe, G. Gür, A. Ş. Gürer, Y. Kaya, C. Özgül, Y. Sannay, N. Tongul, C. Yavuz)

Italian: A. Bezgin, Ö. Özduran, Ö. Saçak, A. Tek.

Japanese: S. Ohashi.


Russian: S. Genceliyeva Tamer, N. Hüseyin, G. Tanrikulu.

Other Foreign Languages: A. Simin.

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.

BASIC LEVEL COURSES

<table>
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<tr>
<th>Code</th>
<th>Course</th>
<th>Level</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>
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<td>SPA 111/112/113/114</td>
<td>Basic Spanish I / II / III / IV</td>
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<td>RUS 111/112/113/114</td>
<td>Basic Russian I / II / III / IV</td>
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<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>
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INTERMEDIATE LEVEL COURSES

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<tr>
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<td>FRE 211/212/213/214</td>
<td>Intermediate French I / II / III / IV</td>
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<td>ITA 211/212/213/214</td>
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<td>RUS 211/212/213/214</td>
<td>Intermediate Russian I / II / III / IV</td>
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ADVANCED LEVEL COURSES

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<tr>
<td>FRE 381/382</td>
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<tr>
<td>GER 381/382</td>
<td>Communication Skills in German I / II</td>
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</table>
LANGUAGES COURSES FOR SPECIFIC PROGRAMS

The following courses are designed for the students of the School of Tourism and Hotel Management and the Vocational School of Hotel and Travel Services only. The main focus is on tourism related matters.

GER 161/162/163/164 Basic German I / II / III / IV
GER 261/262/263 Intermediate German I / II / III

FRE 161/162/163/164 Basic French I / II / III / IV
FRE 261/262/263 Intermediate French I / II / III

ITA 161/162/163/164 Basic Italian I / II / III / IV
ITA 261/262/263 Intermediate Italian I / II / III

SPA 161/162/163/164 Basic Spanish I / II / III / IV
SPA 261/262/263 Intermediate Spanish I / II / III

FRL 131/132/133/134 Basic Arabic I / II / III / IV
FRL 141/142/143/144 Basic Persian I / II / III

JAP 161/162/163/164 Basic Japanese I / II / III / IV
JAP 261/262/263 Intermediate Japanese I / II / III

RUS 161/162/163/164 Basic Russian I / II / III / IV
RUS 261/262/263 Intermediate Russian I / II / III

The following courses are designed for the students of the Graduate Program in Turkish Literature and Archaeology and History of Art. Particular emphasis is given to text comprehension, and translation into Turkish.

FRE 401/402 Readings in French I / II
GER 421/422 Readings in German I / II

The following intensive language courses are offered in the summer semester 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.

GER 400/410 Intensive German I / II
FRE 400/410 Intensive French I / II
RUS 400/410 Intensive Russian I / II
FRL 400/410 Intensive Arabic I / II
ITA 400/410 Intensive Italian I / II
SPA 400/410 Intensive Spanish I / II
DEPARTMENT OF AMERICAN CULTURE AND LITERATURE

D. Bryson (Acting Chair), İ. Balkır, E. L. Demirtürk, C. Ireland, S. Palmer, M. Şanlı.

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>
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<tr>
<td>AMER 195</td>
<td>Introduction to American Studies I</td>
</tr>
<tr>
<td>GE 100</td>
<td>Orientation</td>
</tr>
<tr>
<td>CS 121</td>
<td>Introduction to Computing for Social Sciences</td>
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<tr>
<td>ENG 117</td>
<td>Advanced English Grammar I</td>
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<tr>
<td>TURK 101</td>
<td>Turkish I</td>
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<td>Spring Semester</td>
<td>Credits / ECTS Credits</td>
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<tr>
<td>AMER 116</td>
<td>Methods and Texts II</td>
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<td>AMER 196</td>
<td>Introduction to American Studies II</td>
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<tr>
<td>ENG 102</td>
<td>English and Composition II</td>
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<td>ENG 118</td>
<td>Advanced English Grammar II</td>
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<td>TURK 102</td>
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SECOND YEAR

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<thead>
<tr>
<th>Autumn Semester</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>MATH 103</td>
<td>Introductory Mathematics</td>
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<tr>
<td>HUM 111</td>
<td>Cultures Civilizations and Ideas I</td>
</tr>
<tr>
<td>SOC 101</td>
<td>Introduction to Sociology</td>
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<td>HIST 201</td>
<td>History of Turkish Republic I</td>
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<tr>
<td>Spring Semester</td>
<td>Credits / ECTS Credits</td>
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<td>AMER 208</td>
<td>American Texts and Contexts II</td>
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<td>AMER 294</td>
<td>American History II</td>
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<tr>
<td>PHYS 200</td>
<td>Physics for Poets</td>
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<tr>
<td>HUM 112</td>
<td>Cultures Civilizations and Ideas II</td>
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<td>POLS 104</td>
<td>Introduction to Political Science II</td>
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<td>HIST 202</td>
<td>History of Turkish Republic II</td>
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THIRD YEAR

<table>
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<tr>
<th>Autumn Semester</th>
<th>Credits / ECTS Credits</th>
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<tbody>
<tr>
<td>AMER 301</td>
<td>American Social Texts to 1900</td>
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<tr>
<td>AMER 343</td>
<td>American Theater</td>
</tr>
</tbody>
</table>
AMER 383  American Novel to 1900  3 / 6
AMER 393  Intellectuals and Public Culture  3 / 6
E elective  3 / 6

Spring Semester
Credits / ECTS Credits
AMER 302  American Social Texts From 1900  4 / 6
AMER 374  American Poetry  3 / 6
AMER 384  American Novel From 1900  3 / 6
AMER 396  Social and Cultural Movements  3 / 6
E elective  3 / 6

FOURTH YEAR

Autumn Semester
Credits / ECTS Credits
AMER 427  Topics in Theory for American Culture  3 / 6
AMER 459  Race and Ethnicity in American Culture  3 / 6
Restricted Electives  6 / 12
E elective  3 / 6
Spring Semester
Credits / ECTS Credits
AMER 426  American Studies in a Global Context  3 / 6
AMER 492  Gender Studies in American Culture  3 / 6
Restricted Electives  6 / 12
E elective  3 / 6

RESTRICTED ELECTIVES
AMER 242  Modern American Drama II  3 / 6
AMER 312  Letters, Travels, Autobiography  3 / 6
AMER 324  African American Novel of the Color-Line  3 / 6
AMER 404  The 1950s  3 / 6
AMER 406  Early American Fiction  3 / 6
AMER 409  The Great Migration Novel  3 / 6
AMER 418  Contemporary American Short Story  3 / 6
AMER 419  Modern Latino Short Fiction  3 / 6
AMER 420  Readings in Southern Literature  3 / 6
AMER 428  Novels of Toni Morrison  3 / 6
AMER 429  Orientalism and American Culture 1860-1925  3 / 6
AMER 430  The Thirties: The Great Depression and the New Deal  3 / 6
AMER 434  Cold War Culture and Modernization  3 / 6
AMER 435  The Emergence of Modern America 1877-1920  3 / 6
AMER 436  Media Communications Culture  3 / 6
AMER 437  American Film in Context  3 / 6
AMER 438  The Self in American Culture and History  3 / 6
AMER 439  The Art and Business of the Short Story  3 / 6
AMER 440  American Society and Globalization  3 / 6
AMER 441  Culture in its Historical Contexts  3 / 6
AMER 444  Teaching American Studies in Cross-Cultural Contexts  3 / 6
AMER 447  Topics in Cultural Studies  3 / 6
AMER 448  American Pragmatism  3 / 6
AMER 450  Representations of the City  3 / 6
AMER 451  Ethnic Literature  3 / 6
AMER 460  Contemporary Native American Writers  3 / 6
AMER 466  Contemporary African-American Women Writers  3 / 6

COURSE DESCRIPTIONS
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 (D. Chesney, M. Şanlı)

**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 teach students how to analyze
the formal development of a shot sequence. A unit on the novel will continue the study of the formal components
of fiction. Credit units: 3 ECTS Credit Units: 7. Prerequisite: AMER 115 or AMER 117. Spr (S. Palmer)

**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 (G. Brahm, S. Palmer)

**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 (B.
Gürsel, M. Şanlı)

**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
118 and AMER 196. Aut (İ. Balkır, C. Lowe)

**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 (M. Şanlı)

**AMER 242 Modern American Drama II**
A study of selected plays and dramatists of the 60s, 70s, and 80s with emphasis on Hansberry, Shephard,

**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 118 and
AMER 196. Aut (D. Bryson)

**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, Prerequisite: AMER 118 and AMER 196. Spr (E. Şahin)

**AMER 301 American Social Texts to 1900**
The course provides an in-depth analysis of a particular issue, genre, or constellation of voices in the period.
The approach will be interdisciplinary, with a particular emphasis on the social situation of textual productions.
Credit units: 4 ECTS Credit Units: 6. Aut (C. Ireland, C. Lowe)

**AMER 302 American Social Texts From 1900**
The course provides an in-depth analysis of a particular issue, genre, or constellation of voices in the period.
The approach will be interdisciplinary, with a particular emphasis on the social situation of textual productions.
Credit units: 4 ECTS Credit Units: 6. Spr (C. Ireland)
AMER 312  Letters, Travels, Autobiography
Various letters, books of travel and autobiographies will be studied and discussed. Concentration is on a certain century or period (e.g. England, pre-World War I) or a place (e.g. London, the countryside). Credit units: 3 ECTS Credit Units: 6.

AMER 324  African American Novel of the Color-Line
This course looks at 20th century African American novelists who deal with the issue of “passing” as white. It deals with how standing on either side of the color-line invites redefinitions and interrogations of whiteness and blackness as social constructs rather than as mere biological facts. In studying novels such as Charles W. Chesnutt's *Paul Marchand, F.M.C.* (1921), Walter White's *Flight* (1926), Jessie Fauset's *Plum Bun* (1928), Nella Larsen's *Passing* (1929) and various articles on racial passing, students explore the issues of how the novels negotiate the arbitrariness of the color-line and how the white/black race may fail to represent the characters' identities. Credit units: 3 ECTS Credit Units: 6.

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 Arent, Luis Valdez, and Anna Deavere Smith. Credit units: 3 ECTS Credit Units: 6. Aut (M. Şanlı)

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 (S. Palmer)

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. Aut (E. L. Demirtürk) Spr (R. Kayalar)

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 393  Intellectuals and Public Culture
This course examines significant figures in American intellectual life and their role in shaping public sphere controversies and debates. It will examine debates on topics such as slavery, citizenship, women's rights, and the role of education and responsibility in a democracy, in the context of the radical social and economic transformations in American society at the turn of the century. The works of Toqueville, Turner, H. James, Dewey, Walzer and C. Taylor are studied with the aim of observing the inscriptions of democracy, multiculturalism, tolerance, equality as the regulatory terms of American public culture. Post WWII universalization of these idioms is juxtaposed to the argument that the public sphere is eroding in the US. Credit units: 3 ECTS Credit Units: 6. Aut (I. Balkır)

AMER 396  Social and Cultural Movements
The focus of this course is on the ways in which social movements have transformed the United States. These may include abolitionism, the Great Awakening, populism, the labor movement, suffragism, the Civil Rights movement, and Conservatism, among many others. Credit units: 3 ECTS Credit Units: 6. Spr (D. Bryson)

AMER 404  The 1950s
Both in terms of actual events and in terms of US self-perception, the era known as “the 1950s” marks several important watersheds in US social, cultural and economic history. The course examines a range of topics, including US foreign policy, the suburban boom, the domestic retreat of women, the emergence of youth culture and rock'n roll, Disneyland, the rise of television, McCarthyism, and responses to the era: civil rights, the Beat poets, and intellectual debates around social conformity and “the end of ideology.” Credit units: 3 ECTS Credit Units: 6.

AMER 406  Early American Fiction
This senior seminar examines the development of literary fiction during the revolutionary and early national periods of the U.S. It begins with earliest novels in American literature, William Hill Brown's *The Power of Sympathy* and Hannah Webster Foster's *The Coquette*, and considers how these works relate to the collectivist ethos of the early Republic. The gothic fiction of Charles Brockden Brown, *Wieland* and the hybridized text of Washington Irving's *The Sketchbook* are examined, as is the emergence of individualist Romance through reading of James Fenimore Cooper's *The Pioneers*. The course concludes with a special test case, Herman Melville's *Moby Dick*. Throughout the course students are guided by the theoretical elaboration of nationality provided in Benedict Anderson's *Imagined Communities*. Credit units: 3 ECTS Credit Units: 6.
AMER 409  The Great Migration Novel

AMER 418  Contemporary American Short Story
This course aims to introduce students to contemporary American short stories. While requiring students to analyze the elements of short story, the course will also strive to explore contemporary American short stories by focusing on their diverse styles, themes and their regional and national heritages. Credit units: 3 ECTS Credit Units: 6.

AMER 419  Modern Latino Short Fiction
Many storytellers from Mexico, Central America and Latin America tell a rich diversity of stories as they encounter the North American environment. We will read a selection of stories to better understand how love, marriage, upward mobility, longings for home, growing up, and other human events are experienced by this special group of Americans with their own rich traditions. Credit units: 3 ECTS Credit Units: 6.

AMER 420  Readings in Southern Literature
Major critical approaches from Aristotle’s 4th Poetics to recent theories; attempts to analyze and define the functions of literature; social, ethical, historical, and aesthetic issues; classical heritage, romantic theory, modernism, post-structuralism, including deconstruction and cultural critiques. Credit units: 3 ECTS Credit Units: 6.

AMER 428  Novels of Toni Morrison
Nobel-winning African-American woman novelist Toni Morrison’s work deserves closer attention with the increasing popularity she has enjoyed. The course will explore the role of community and cultural heritage for women characters, especially to cross “places” and to delineate new meanings of home in transgressing boundaries. The course will further explore the role of community and cultural heritage for women characters, especially to cross “spaces” and to delineate new meanings of home in transgressing boundaries. Excerpts from Morrison’s essay and interviews will be given as handouts in association with the discussions of novels. Credit units: 3 ECTS Credit Units: 6.

AMER 429  Orientalism and American Culture 1860-1925
The geographic focus will be on American perceptions of the “the Near East.” The course examines a wide range of genres and artifacts from high culture to popular and material culture, placing them in their dual historical context (American and Near Eastern). Genres and artifacts include gothic literature, travel narratives, war novels, correspondence and missionary narratives, museum and world fair representations of the Near East, Orientalism in Victorian architecture, performances, and movies, advertisements, and magazine articles. In addition, students will read theoretical texts to frame their approach to the material. Credit units: 3 ECTS Credit Units: 6.

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. Spr (D. Bryson)

AMER 434  Cold War Culture and Modernization
This course will explore the culture of the early Cold War (1950-60) in an international context of modernization narratives. The Cold War invented many cosmopolitan cultural forms, subjects, and narratives, with the express aim of the local/ global circulation of American ideas of modernity. The global modernity of the 50s is a product of American social sciences, area studies, development theories, public relations and advertisement/ propaganda campaigns. In this course we will explore the ways in which this project was appropriates and subverted in various local practices and discourses. Reading include official documents from US National Archives and various Turkish archives, modernization theories, and other background material on the cultural Cold War. Credit units: 3 ECTS Credit Units: 6.

AMER 435  The Emergence of Modern America 1877-1920
The years from end of Reconstruction to the end of World War I represent a watershed in U.S. history. Processes of urbanization, immigration, industrialization; and concomitant realities of mass production and mass consumption; conflicts along racial, ethnic, gender, and class lines; the final surge of Western expansion; and the emergence of the United States as a global power took place during this decades. This course will examine the social, political economic and cultural transformations that occurred during the late nineteenth- and early twentieth centuries, often also referred to as the Gilded Age and the Progressive Era, and that critically shaped modern American society. Credit units: 3 ECTS Credit Units: 6.

AMER 436  Media Communications Culture
This interdisciplinary course examines the history, sociology, and theory of media and communications in the American context. Our focus will be on the ways that diverse media and technologies-orality, literacy, print, radio,
television, film, digital media - shape and transform human communication. Topics to be covered may include: the role of media and technology in the development of mass culture; the corporatization of media and culture; forms of media critique; digital media and the laws of cyberspace; media, ideology, and the public sphere; the poetics of online communication; multimedia communication; media, nationalism and minority cultures; media, gender and sexuality; media globalization, and the future of democracy; news media, advertising; and computer-mediated communications; communication networks; and the internet. Credit units: 3 ECTS Credit Units: 6.

AMER 437 American Film in Context
This course examines a wide variety of Hollywood and independent American films in their artistic, technical, social, and economic context. The focus will be on the vast range of filmmaking styles that have emerged in the United States over the past century. Films by D.W. Griffith, Charlie Chaplin, Orson Wells, Alfred Hitchcock, Billy Wilden, John Ford, Martin Scorsese, Francis Ford Coppolla, Woody Allen, Robert Altman, Stan Brakhage, John Waters, Jim Jarmusch, David Lynch, John Samples, Spike Lee, the Coen Coen Brothers, Quentin Tarantino, Hal Hartley, Steven Soderberg, Spike Jonze, and Todd Solondz will be studied. Credit units: 3 ECTS Credit Units: 6.

AMER 438 The Self in American Culture and History
This course will examine the manner in which the “self” has been constructed in American (and more generally Western) culture from a historical perspective. We will examine how various American (as well as non-U.S.) writers, social scientists, and philosophers have dealt with the self—as well as how the self has been experienced and perceived by Americans in general—during the nineteenth and twentieth centuries. The following will be issues of special concern: the transition from “character” to “personality” in the early twentieth century; the cultural history of self-assessment and management; social scientific knowledge and the construction of the self; gender and self; the emergence of the modern emphasis on self-realization; the phenomena of “multiple personality”; and the significance of “memoro-politics” in the contemporary world. The most important goal of the course will be to foster a critical sense of the way in which the self is not a naturally given entity, but is produced within specific cultural and historical contexts. Credit units: 3 ECTS Credit Units: 6.

AMER 439 The Art and Business of the Short Story

What, if anything, makes a short story and not a sketch, an unfinished novel, or a prose poem? Must short stories achieve unity of effect, consciousness of their own artistry, reveal character rather than build it, or capture a slice of life? Is there any truth in the cliche that the short story is the only original American art form, and if not, what symbolic work is performed by that cliche? Why have publishers and creative writing workshops extolled the genre’s virtues for 100 years? We will read short stories and short story criticism by Edgar Allan Poe, Mary Wilkins Freeman, Anton Chechov, Edith Wharton, O. Henry, Saul Bellow, Philip Roth, Raymond Carver, Louise Erdrich, Bobbie Ann Mason, and recent unknown authors. Although we will study the stories’ themes, we will focus on formal and institutional analyses – that is, on the technical and business aspects of the genre’s unfolding. Credit units: 3 ECTS Credit Units: 6.

AMER 440 American Society and Globalization
This course will examine the content and context of such global concepts as global economy, global village, IN- GOs, communications society, technology revolution and multiculturalism with American and global perspectives. Specific references will be made to contemporary global events including the social changes that took place in the 20th century and issues with the role the U.S. plays in a global society. Particular attention will be paid to the elements of perspective consciousness, global interconnectedness, cross-cultural understanding, and global history. Students are expected to apply and evaluate global issues with cross-cultural inquiry in individual and group projects. 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 444 Teaching American Studies in Cross-Cultural Contexts
This course aims at the content selection and course design techniques to teach American Studies in a cross-cultural context to non-American students. Students are expected to compare and contrast the culture of their own with that of American culture at local and state level as they specify interdependence between the two cultures in social, political and historical contexts. The course focuses on the hands-on curriculum design along with preparing and presenting an array of methodologies in delivering the content to a precolligiate level audience. Specific instructional practices in using technology and visuals are assigned as individual and group projects, and the research projects 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: .

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: . Spr (Staff)

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: . Aut (E. L. Demirtürk)

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 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 ethnocide, eugenics, and repatriation, as backdrop to the complex roles played by race and ethnicity in the US. Credit units: 3 ECTS Credit Units: 6. Aut (S. Palmer)

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.

AMER 466 Contemporary African-American Women Writers
Contemporary African American women writers may include major works by N. Larsen, Z.N. Hurston, T. Morrison, T. McMillian, A. Walker and G. Naylor. Credit units: 3 ECTS Credit Units: 6. Spr (E. L. Demirtürk)

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 (S. Palmer)
DEPARTMENT OF ARCHAEOLOGY AND HISTORY OF ART

M. Gates (Chair), J. Bennett, B. C. Coockson, Y. Ersoy, C. Gates, J. Morin, I. Özgen, T. Zimmermann.

Part-time: H. Umunç.

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 Hacımusalar-Elmalı (Antalya) and Kinet Höyük-Dörtyol (Hatay).

UNDERGRADUATE PROGRAM

The aim of the undergraduate program in the Department of Archaeology and History of Art 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

**Autumn Semester**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<td>HART 111</td>
<td>Introduction to Archaeology</td>
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<tr>
<td>HART 117</td>
<td>Ways of Seeing: Approaches to Art and Architectural History</td>
<td>3 / 4</td>
</tr>
<tr>
<td>HART 123</td>
<td>Ancient Near Eastern and Egyptian Civilizations</td>
<td>3 / 4</td>
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<tr>
<td>HART 125</td>
<td>Archaeological Illustration</td>
<td>3 / 4</td>
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<tr>
<td>GE 100</td>
<td>Orientation</td>
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<tr>
<td>CS 121</td>
<td>Introduction to Computing for Social Sciences</td>
<td>3 / 6</td>
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<tr>
<td>ENG 101</td>
<td>English and Composition I</td>
<td>3 / 6</td>
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**Spring Semester**

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<td>HART 118</td>
<td>Survey of European Art and Architecture</td>
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<td>HART 120</td>
<td>Human Evolution and World Prehistory</td>
<td>3 / 6</td>
</tr>
<tr>
<td>HART 124</td>
<td>Societies and Cultures of the Classical World</td>
<td>3 / 6</td>
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<tr>
<td>HART 126</td>
<td>Archaeological Planning or Planning and Drawing in the Field</td>
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<td>English and Composition II</td>
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<td>TURK 102</td>
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SECOND YEAR

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<tr>
<td>HART 219</td>
<td>Anatolian Archaeology, Neolithic to the Iron Age</td>
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<td>HART 221</td>
<td>Egyptian Art and Archaeology</td>
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<tr>
<td>HART 223</td>
<td>Early Greek Art and Archaeology</td>
</tr>
<tr>
<td>HART 225</td>
<td>Cultural Anthropology</td>
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<tr>
<td>HIST 201</td>
<td>History of Turkish Republic</td>
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<tr>
<td>HART 208</td>
<td>Roman Art and Archaeology</td>
</tr>
<tr>
<td>HART 220</td>
<td>Anatolian Archaeology, Classical and Byzantine</td>
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<td>HART 222</td>
<td>Mesopotamian Archaeology</td>
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<td>HART 224</td>
<td>Classical Greek and Hellenistic Art and Archaeology</td>
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<td>HIST 202</td>
<td>History of Turkish Republic</td>
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THIRD YEAR

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<td>Hittite Archaeology</td>
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<tr>
<td>HART 379</td>
<td>Byzantine Art and Archaeology</td>
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<td>HART 318</td>
<td>Archaeology of Syria and Palestine</td>
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<td>Electives (3)</td>
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FOURTH YEAR

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<tbody>
<tr>
<td>HART 407</td>
<td>Hellenistic and Early Roman Periods in Anatolia</td>
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<tr>
<td>HART 409</td>
<td>Museum Practices and the Preservation of Cultural Heritage</td>
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<tr>
<td>HART 436</td>
<td>Archaeological Method and Theory</td>
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ELECTIVES

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<td>HART 231</td>
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<td>HART 232</td>
<td>Ancient Greek II</td>
<td>3 / 6</td>
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<tr>
<td>HART 239</td>
<td>Latin I</td>
<td>3 / 6</td>
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<tr>
<td>HART 240</td>
<td>Latin II</td>
<td>3 / 6</td>
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<tr>
<td>HART 300</td>
<td>The Roman Empire Under Trajan</td>
<td>4 / 6</td>
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<td>HART 303</td>
<td>Greek Sculpture</td>
<td>3 / 6</td>
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<td>HART 306</td>
<td>Hellenistic and Roman Sculpture</td>
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<td>HART 307</td>
<td>Monumental Painting</td>
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<td>HART 308</td>
<td>Greek Vase Painting</td>
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<td>HART 310</td>
<td>Archaeological Surveying and Planning</td>
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<td>HART 313</td>
<td>European Prehistory</td>
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<tr>
<td>HART 314</td>
<td>Archaeology of Iran</td>
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<td>HART 315</td>
<td>Greek Architecture</td>
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<td>HART 316</td>
<td>Roman Architecture</td>
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<td>HART 317</td>
<td>Archaeology of Troy</td>
<td>3 / 6</td>
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<td>HART 319</td>
<td>Bronze Age in Iran</td>
<td>3 / 6</td>
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<td>HART 322</td>
<td>Orientalizing Period</td>
<td>3 / 6</td>
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<td>HART 326</td>
<td>Near Eastern and Anatolian Glyptic</td>
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<td>HART 328</td>
<td>The Aegean Bronze Age</td>
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HART 333 Ancient Greek III .......................................................... 3 / 6
HART 334 Ancient Greek IV ......................................................... 3 / 6
HART 340 Archaeology of Ionia ...................................................... 3 / 6
HART 343 Latin III ........................................................................ 3 / 6
HART 344 Latin IV ......................................................................... 3 / 6
HART 351 Monuments of Athens .................................................... 3 / 6
HART 352 Monuments of Rome ...................................................... 3 / 6
HART 365 Ancient Cities ............................................................... 3 / 6
HART 370 Iron Age Sculpture of the Near East .............................. 3 / 6
HART 371 Achaemenian Art and Archaeology ............................... 3 / 6
HART 403 Greek Sanctuaries ......................................................... 3 / 6
HART 406 Science in Archaeology ................................................ 3 / 6
HART 408 Late Roman and Byzantine Periods in Anatolia ............... 3 / 6
HART 411 Greek and Roman Portraiture ........................................ 3 / 6
HART 412 Museum Education ....................................................... 1 / 2
HART 413 Archaeological Photography ......................................... 3 / 6
HART 420 Readings in Prehistory .................................................. 3 / 6
HART 421 Archaeological Conservation ....................................... 3 / 6
HART 430 Readings in Near Eastern Art and Archaeology ............... 3 / 6
HART 434 Landscape Archaeology ................................................ 3 / 6
HART 435 Selected Topics in Anatolian Art and Archaeology .......... 3 / 6
HART 439 Neolithic and Chalcolithic Periods in Anatolia ............... 3 / 6
HART 440 Readings in Anatolian Art and Archaeology .................. 3 / 6
HART 474 Neo-Assyrian Art and Archaeology ............................... 3 / 6
HART 490 Supervised Study .......................................................... 3 / 6
HART 491 Readings From Near Eastern Texts ................................. 3 / 6
HART 492 Readings From Greek/Latin Texts ................................ 3 / 6
HART 494 Readings From Greek/Latin Texts II .............................. 3 / 6
HART 515 Readings in Near Eastern Archaeology ........................... 3 / 6
HART 516 Supervised Research in Near Eastern Archaeology .......... 3 / 6
HART 517 Readings in Anatolian Archaeology ............................... 3 / 6
HART 518 Supervised Research in Anatolian Archaeology ............... 3 / 6

**GRADUATE PROGRAMS**

**Master of Arts in Archaeology and History of Art**

The Department of Archaeology and History of Art 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, Cultural Ecology 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

#### FIRST YEAR

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<tr>
<th>Autumn Semester</th>
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<tr>
<td>HART 501</td>
<td>Issues in Archaeological Theory</td>
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<td>HART 505</td>
<td>Cultural Ecology</td>
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<td>HART 507</td>
<td>Pre-Classical Art and Archaeology</td>
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<td>HART 509</td>
<td>Classical Art and Archaeology</td>
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<td>HART 523</td>
<td>Medieval Art and Archaeology</td>
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<td>HART 551</td>
<td>Ancient Greek I</td>
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<td>HART 553</td>
<td>Ancient Greek III</td>
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<td>HART 563</td>
<td>Latin I</td>
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<td>HART 504</td>
<td>Interpretation of Art Historical Materials</td>
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<td>HART 508</td>
<td>Issues in Pre-Classical Art and Archaeology</td>
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<td>Issues in Classical Art and Archaeology</td>
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<td>HART 524</td>
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<td>Ancient Greek II</td>
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<td>Ancient Greek IV</td>
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<td>HART 564</td>
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#### RESTRICTED ELECTIVES

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<td>Issues in Pre-Classical Art and Archaeology</td>
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<td>HART 584</td>
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COURSE DESCRIPTIONS
UNDERGRADUATE COURSES

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
craving, 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 (J. Bennett)

HART 117  Ways of Seeing: Approaches to Art and Architectural History
An archaeological, historical and critical introduction to the art and architecture of the Ancient Near East, Egypt,
the Mediterranean basin, the Islamic world, and South and East Asia from prehistoric times through the Middle
Ages. Credit units: 3 ECTS Credit Units: 4. Aut (C. Gates)

HART 118  Survey of European Art and Architecture
An introduction to the art and architecture of Western Europe and America from the Middle Ages through the
20th century. Credit units: 3 ECTS Credit Units: 6. Spr (C. 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 123  Ancient Near Eastern and Egyptian Civilizations
A survey of the social, political and economic history of the Near East and the Mediterranean from prehistoric
times to the end of the early Iron Age. Credit units: 3 ECTS Credit Units: 4. Aut (T. Zimmermann)

HART 124  Societies and Cultures of the Classical World
A survey of the social, political and economic history of the Near East and the Mediterranean from the classical
period to the fall of the Byzantine Empire. Credit units: 3 ECTS Credit Units: 6. Spr (T. Zimmermann)

HART 125  Archaeological Illustration
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
evacuation. Credit units: 3 ECTS Credit Units: 4. Aut (B. C. Coockson)

HART 126  Archaeological Planning or Planning and Drawing in the Field
Further development and practice of the skills introduced in HART 217. Credit units: 3 ECTS Credit Units: 5.
Spr (B. C. Coockson)

HART 208  Roman Art and Archaeology
A historical survey of the visual arts and architecture of Rome and Italy studied in cultural and political context,
from the Etruscans to the fall of Rome. Credit units: 3 ECTS Credit Units: 6. Spr (J. Bennett)

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 (İ. Özen)

HART 220  Anatolian Archaeology, Classical and Byzantine
An introduction to the ancient sites and monuments of Anatolia and its relations with the surrounding cultures
from the Archaic to the Byzantine period. Credit units: 3 ECTS Credit Units: 6. Spr (İ. Özen)

HART 221  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.
Emphasis on major monuments of architecture, sculpture, relief and painting; questions of stylistic change and
historical context will be considered. Credit units: 3 ECTS Credit Units: 6. Aut (M. Gates)

HART 222  Mesopotamian Archaeology
The history, archaeology and art of the Ancient Near East from the Akkadian period (late 3rd millennium BC)
through the Persian conquest (539 BC). Credit units: 3 ECTS Credit Units: 6. Spr (M. Gates)

HART 223  Early Greek Art and Archaeology
The art and archaeology of ancient Greece: the development of architecture, sculpture, painting and minor arts
from the Minoan period through the Archaic period. Credit units: 3 ECTS Credit Units: 6. Aut (J. Morin)

HART 224  Classical Greek and Hellenistic Art and Archaeology
The art and archaeology of ancient Greece during the Classical and Hellenistic periods. Credit units: 3 ECTS
Credit Units: 5. Spr (Y. Ersoy)
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.

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. Aut (J. Morin)

HART 232  Ancient Greek II
Completion of the grammar and vocabulary acquisition started in Ancient Greek I. Credit units: 3 ECTS Credit Units: 6.

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. Aut (Staff)

HART 240  Latin II
Completion of the grammar and vocabulary acquisition begun in Latin I. Credit units: 3 ECTS Credit Units: 6. Spr (Staff)

HART 300  The Roman Empire Under Trajan
This course is specifically designed to provide students with little or no previous knowledge of Roman history or archaeology with an understanding of how the Roman Empire appeared and functioned at its apogee. It will begin with an overview of political events and developments from 31 BC, when Octavian became undisputed ruler of Rome, to AD 97, the year that Nerva adopted Trajan as his heir and successor. Then follows a more detailed review of the historical and archaeological evidence for cultural and social aspects of the Roman Empire during Trajan's reign, with a particular emphasis on the evidence available from the eastern Roman provinces, especially from modern Turkey. From this, students will learn how a reliable account of the period can only be established by combining the limited historical record with the evidence of archaeology, epigraphy and numismatics. On successful completion of the course, therefore, the student will not only have a detailed knowledge of the cultural achievements of the period, but will also develop an awareness of historiographical methods and issues, and how archaeology substantially improves on the available documentary record. Credit units: 4 ECTS Credit Units: 6.

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. Aut (Y. Ersoy)

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 307  Monumental Painting
The arts of wall painting and mosaics in the Greek world and Italy from the Archaic period to the third century AD. 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 (Y. Ersoy)

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. Spr (W. C. Coockson)

HART 313  European Prehistory
Survey of human prehistory in Europe from the earliest humanoid cultures to the beginnings of advanced civilizations. Paleolithic and Mesolithic cultures; Neolithic and Bronze Age cultures. Credit units: 3 ECTS Credit Units: 6.

HART 314  Archaeology of Iran
A detailed examination of the archaeology of Iran from the time of the earliest civilizations to the Achaemenian period. Credit units: 3 ECTS Credit Units: 6.

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. Aut (J. Morin)

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. Spr (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. Aut (T. Zimmermann)

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 319 Bronze Age in Iran
A detailed examination of the archaeology of Iran during the Bronze Age. Credit units: 3 ECTS Credit Units: 6.

HART 322 Orientalizing Period
A survey of the trends in Greek arts, crafts and techniques between the early 8th and 6th centuries BC, emphasizing their connection with the artistic traditions of the Near East (Anatolia, the Levant, Egypt) and the Near Eastern contribution to the development of Greek culture, both material and intellectual. Credit units: 3 ECTS Credit Units: 6.

HART 323 Islamic Art and Architecture I
Islamic Art and Architecture of the Middle East and North Africa from the 8th through the 13th centuries. Credit units: 3 ECTS Credit Units: 6.

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 (I. Ozgen)

HART 326 Near Eastern and Anatolian Glyptic
This course will survey the glyptic arts (seal carvings) of the Near East and Anatolia from their beginning in the Uruk period (late 4th millennium BC) down to the Iron Age in Anatolia and Mesopotamia (1st millennium BC). The seals, their representations and associated texts will be examined to highlight our understanding of the administration and social structure they reflect. Credit units: 3 ECTS Credit Units: 6.

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 328 The Aegean Bronze Age
The prehistoric cultures of the Aegean area, concentrating on Minoan Crete, Troy, the Aegean Islands, and Mycenaean Greece. Credit units: 3 ECTS Credit Units: 6. Spr (Y. Ersoy)

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.

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 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. Spr (Staff)
HART 340 Archaeology of Ionia
A detailed survey of the archaeology and history of Ionia from the Bronze Age through the Classical period. Special emphasis will be placed on urban development of the major Ionian centers, political and religious institutions, and cultural and artistic productions, as well as their exchanges with the wider Mediterranean and Anatolian world. 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 (Staff)

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 (Staff)

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 352 Monuments of Rome
A detailed study of the monuments of Rome in relation to its topography and urban development. Stylistic characteristics and innovations in architecture and arts. 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: Olmec, teotihuacan, Maya, Toltec, and Aztec. Credit units: 3 ECTS Credit Units: 6. Spr (C. Gates)

HART 365 Ancient Cities
A study of urban developments from the Neolithic period onwards, covering in particular cities of the Near East, Egypt, the Aegean, Greece and the Roman world. Credit units: 3 ECTS Credit Units: 6.

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 371 Achaemenian Art and Archaeology
A discussion of the arts and archaeology of the Achaemenian period. The particular focus will be on the sites of Iran and Anatolia. Credit units: 3 ECTS Credit Units: 6.

HART 379 Byzantine Art and Archaeology
Archaeology and Art, Architecture and its decoration from Early Christian times in East and West until the sixth century AD, and in the Byzantine lands until the Turkish period. Credit units: 3 ECTS Credit Units: 6. Aut (C. Gates)

HART 403 Greek Sanctuaries
A 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 406 Science in Archaeology
This course surveys the contribution of the natural sciences to archaeological and art history research. Credit units: 3 ECTS Credit Units: 6. Spr (T. Zimmermann)

HART 407 Hellenistic and Early Roman Periods in Anatolia
A detailed survey of the art and archaeology of Anatolia against its political, economic and cultural background. From Alexander the Great to the early Imperial period. Credit units: 3 ECTS Credit Units: 6. Aut (Y. Ersoy)

HART 408 Late Roman and Byzantine Periods in Anatolia
A detailed survey of the art and archaeology of Anatolia from the late Roman Empire to the end of the Byzantine Empire. Credit units: 3 ECTS Credit Units: 6. Spr (J. Bennett)

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 (B. C. Coockson)

HART 411 Greek and Roman Portraiture
From the origins of classical sculpture in the Archaic Period, sculptors continued to improve and refine their methods and approaches to produce portraiture which represented real people of their time, and which reflected the sprits of their age. This course follows the development of classical portraiture from its beginnings to the late
Roman period, with an emphasis on Roman portraiture, to establish its origins and originality, and to examine its role in contemporary society. Credit units: 3 ECTS Credit Units: 6.

HART 412 Museum Education
This course will investigate the role of museums as institutions with a pedagogical mission. The focus is on the relation between the visitor and the collection on display. By means of mediation, a visit to a museum can be a learning experience in many dimensions (knowledge, self-understanding, taste, cultural competence). The theoretical aspects, history, recent publications and practical possibilities of museum education are discussed. The Museum of Anatolian Civilizations will serve as the field of educational research and experimentation. Credit units: 1 ECTS Credit Units: 2.

HART 414 Introduction to Hittitology
The course covers Hittite history, religion and literature; it also discusses the history of Hittitology (Hittite studies). Credit units: 3 ECTS Credit Units: 6.

HART 421 Archaeological Conservation
Archaeological conservation provides a framework of ethical and practical knowledge for the conservation and preservation of archaeological materials and sites. Theoretical and laboratory topics will also be discussed. Credit units: 3 ECTS Credit Units: 6.

HART 422 Conservation for Field Archaeologists
This course will give hands-on training for basic finds' conservation in the field. It will take place over a 3-week period, with 14 hours of class and laboratory training. Credit units: 1 ECTS Credit Units: 2. Spr (Staff)

HART 430 Readings in Near Eastern Art and Archaeology
This course will investigate the most recent issues and scholarship on a topic in the field of Near Eastern art and archaeology. Subject to be announced in the schedule of classes. 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.

HART 435 Selected Topics in Anatolian Art and Archaeology
Weekly 3-hour seminar with assigned readings, reports and a research paper on a specialized topic to be selected by the instructor. It will cover specific cultural periods, regions or issues in Anatolian Art and Archaeology. Credit units: 3 ECTS Credit Units: 6.

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.

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.

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 442 Conservation for Field Archaeologists
This course will give hands-on training for basic finds' conservation in the field. It will take place over a 3-week period, with 14 hours of class and laboratory training. Credit units: 1 ECTS Credit Units: 2. Spr (Staff)

HART 444 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 444 Readings in Anatolian 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 (˙I. ¨Ozgen)

HART 489 Senior Conference
A project emphasizing archaeological research on a specific topic in any field of art and archaeology supplemented with oral presentations. Credit units: 3 ECTS Credit Units: 6.

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. Aut (M. Gates) Spr (Staff)

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.
HART 492  Readings From Greek/Latin Texts
This course will focus on selected readings from original sources. Credit units: 3 ECTS Credit Units: 6. Aut (M. Gates, J. Morin)

HART 494  Readings From Greek/Latin Texts II
Reading ancient Greek or Latin authors in their original language. This course requires familiarity with the ancient language beyond the department’s 2-year ancient language curriculum. Credit units: 3 ECTS Credit Units: 6. Spr (M. Gates)

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.

HART 503  Issues in Conservation and Preservation
Introduction to the basic methods of conservation of objects, architecture, and historical and archaeological sites; conservation and cultural preservation in their socio-economic contexts; laws and ethics of cultural preservation; and international perspectives on conservation and cultural preservation. Credit units: 3 ECTS Credit Units: 6.

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. Aut (C. Gates)

HART 505  Cultural Ecology
Cultural adaptation, with emphasis on the systematic interaction of environment, technology and social organization among hunter-gatherers, nomadic herders and peasant farmers. Credit units: 3 ECTS Credit Units: 6. Spr (J. Morin)

HART 506  Ethnoarchaeology
The history, method and theory of ethnoarchaeology, with case studies of the use of ethnography in archaeological interpretation and theory-building. 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 (Özgen)

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.

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 (Y. Ersoy)

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. 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. Aut (Staff)

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 517  Readings in Anatolian Archaeology
Graduate tutorial in Anatolian Archaeology, on a topic to be chosen by the instructor. Credit units: 3 ECTS Credit Units: 6. Aut (Staff)

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 521  Problems in Medieval Art and Archaeology
Classes conducted with readings and discussion on key issues of Anatolian art and archaeology of the Byzantine, Islamic, Seljuk and Ottoman periods. Credit units: 3 ECTS Credit Units: 6. Aut (Staff)
HART 523  Medieval Art and Archaeology
Classes conducted with readings and discussion on key issues of Anatolian art and archaeology of the Byzantine, Islamic, Seljuk and Ottoman periods. **Credit units: 3 ECTS Credit Units: 6.**

HART 524  Issues in Medieval Art and Archaeology
Classes conducted with readings and discussion on key issues of Anatolian art and archaeology of the Byzantine, Islamic, Seljuk and Ottoman periods. **Credit units: 3 ECTS Credit Units: 6. Spr (Staff)**

HART 530  Conservation for Field Archaeologists
This course will give hands-on training for basic finds’ conservation in the field. It will take place over a 3-week period, with 14 hours of class and lab. training. **Credit units: 1 ECTS Credit Units: 2. Spr (Staff)**

HART 532  Introduction to Hittitology
The course covers Hittite history, religion and literature; it also discusses the history of Hittitology (Hittite studies). **Credit units: 3 ECTS Credit Units: 6.**

HART 536  Hittite Grammar 1
The course is an introduction to the Hittite language spoken in Anatolia in the 2nd mill. BC, and one of the oldest among the Indo-European languages. The students will be introduced to basic grammar and syntax, in order to understand the language. **Credit units: 3 ECTS Credit Units: 6.**

HART 538  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 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. Aut (J. Morin)**

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, Prerequisite: HART 552.**

HART 554  Ancient Greek IV
Selections from Greek literature, and an introduction to epigraphy. **Credit units: 3 ECTS Credit Units: 6, Prerequisite: HART 553.**

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 (Staff)**

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 (Staff).**

HART 588  Readings From Greek/Latin Texts II
Reading ancient Greek or Latin authors in their original language. This course requires familiarity with the ancient language beyond the department’s 2-year ancient language curriculum. **Credit units: 3 ECTS Credit Units: 6.**

HART 599  Master’s Thesis
**Credit units: None ECTS Credit Units: 24. Aut (Staff) Spr (Staff)**
DEPARTMENT OF ENGLISH LANGUAGE AND LITERATURE


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

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<td>Translation I (English-Turkish) 3 / 6</td>
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<td>ELIT 137</td>
<td>English History I (to the Restoration) 3 / 6</td>
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<td>ELIT 139</td>
<td>Appreciation of Literature 3 / 6</td>
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<td>GE 100</td>
<td>Orientation 1 / 1</td>
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<td>ENG 101</td>
<td>English and Composition I 3 / 6</td>
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<td>ENG 117</td>
<td>Advanced English Grammar I 3 / 4</td>
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<td>TURK 101</td>
<td>Turkish I 2 / 1</td>
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<tr>
<td>ELIT 112</td>
<td>Translation II (Turkish-English) 3 / 6</td>
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<tr>
<td>ELIT 130</td>
<td>Selections from English Literature (to the Restoration) 3 / 5</td>
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<td>ELIT 138</td>
<td>English History II (to Present) 3 / 5</td>
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<td>CS 121</td>
<td>Introduction to Computing for Social Sciences 3 / 6</td>
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<td>ENG 102</td>
<td>English and Composition II 3 / 6</td>
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<td>ENG 118</td>
<td>Advanced English Grammar II 3 / 4</td>
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SECOND YEAR

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<th>Credits / ECTS Credits</th>
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<tr>
<td>ELIT 205</td>
<td>Oral Expression Discussion and Presentation I 3 / 6</td>
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<tr>
<td>ELIT 223</td>
<td>World Mythology 3 / 6</td>
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<tr>
<td>ELIT 261</td>
<td>The English Novel I (18th Century) 3 / 6</td>
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<tr>
<td>ELIT 281</td>
<td>The Short Story 3 / 6</td>
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<tr>
<td>ENG 201</td>
<td>Essay Writing 3 / 5</td>
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**Third Year**

### Spring Semester

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<td>ELIT 242</td>
<td>Introduction to Drama</td>
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<tr>
<td>ELIT 262</td>
<td>The English Novel II (19th Century)</td>
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<tr>
<td>ELIT 270</td>
<td>Poetry</td>
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<tr>
<td>ENG 214</td>
<td>Research Techniques for Humanities</td>
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<tr>
<td>HIST 202</td>
<td>History of Turkish Republic II</td>
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### Autumn Semester

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<td>Shakespeare I (Comedies, Romances, Problem Plays)</td>
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<tr>
<td>ELIT 355</td>
<td>Major Writers of the Renaissance</td>
<td>3 / 6</td>
</tr>
<tr>
<td>ELIT 361</td>
<td>Modern British Fiction I (to the 1950s)</td>
<td>3 / 6</td>
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<tr>
<td>HUM 111</td>
<td>Cultures Civilizations and Ideas I</td>
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### Spring Semester

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<td>ELIT 352</td>
<td>Shakespeare II (Tragedies, Roman Plays, Histories)</td>
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<tr>
<td>ELIT 356</td>
<td>Major Writers of the Neoclassical Period</td>
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<tr>
<td>ELIT 362</td>
<td>Modern British Fiction II (1950s to present)</td>
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<tr>
<td>HUM 112</td>
<td>Cultures Civilizations and Ideas II</td>
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<td>ELIT 423</td>
<td>Theory and Practice of Criticism</td>
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<td>ELIT 441</td>
<td>British Drama I (from the Restoration to the 1950s)</td>
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<td>ELIT 463</td>
<td>Post-Colonial Fiction</td>
<td>3 / 6</td>
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<tr>
<td>ELIT 471</td>
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<td>Selected Topics</td>
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<tr>
<td>ELIT 442</td>
<td>British Drama II (from the 1950s to present)</td>
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<tr>
<td>ELIT 456</td>
<td>Major Writers of the Victorian Period</td>
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<td>ELIT 474</td>
<td>20th Century Poetry</td>
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### Fourth Year

### Autumn Semester

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<td>ELIT 456</td>
<td>Major Writers of the Victorian Period</td>
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### Spring Semester

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### Course Descriptions

**Department of English Language and Literature 253**

**Electives**

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<th>Course Code</th>
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<td>ELIT 109</td>
<td>Translation I (English-Turkish)</td>
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<tr>
<td>ELIT 112</td>
<td>Translation II (Turkish-English)</td>
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<tr>
<td>ELIT 113</td>
<td>Reading Skills and Appreciation of Lit. Reading Skills</td>
<td>3 / 6</td>
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<tr>
<td>ELIT 115</td>
<td>Oral Expression Discussion and Presentation</td>
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**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.

**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: 6.

**ELIT 113  Reading Skills and Appreciation of Lit. Reading Skills**

This course aims to familiarize students with the study and appreciation of major literary genres and the same time provide them with advanced reading skills and enhance their vocabulary and deepen their awareness and understanding of different usage and structures. **Credit units:** 3 ECTS Credit Units: 6. (A. Lake, D. B. Randall)

**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 (S. Taşkın)**

**ELIT 126 Literature for Young Learners**
This first year course will concentrate on the basic literary works that address the young learners. The course can be seen as a study of fictional texts written for young people, and their use in the classroom in the context of recent narrative and textual theory. Texts studied cover the range from tales and short stories to young adult novels, with an emphasis on the twentieth century fiction. Thus, the course will develop an understanding of and response to texts such as Lord of the Files and Harry Potter. **Credit units: 3 ECTS Credit Units: 5. Spr (V. Kennedy)**

**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.**

**ELIT 137 English History I (to the Restoration)**
A survey of English history from Roman Britain to the Restoration. **Credit units: 3 ECTS Credit Units: 6.**

**ELIT 138 English History II (to Present)**
Sequel to ELIT 137. Surveys English history from the Restoration to the present. **Credit units: 3 ECTS Credit Units: 6.**

**ELIT 139 Appreciation of Literature**
An introduction to the study and appreciation of three major literary genres: drama, short fiction and poetry. **Credit units: 3 ECTS Credit Units: 6.**

**ELIT 198 Critical Reading**
This course aims to help students develop their critical, interpretative and reading skills by the study and analysis of selected non-literary texts. **Credit units: 3 ECTS Credit Units: 6.**

**ELIT 211 Translation I**
Principles and methods of translation. Translation of relatively simple extracts or short texts of non-fictional prose, fiction, poetry, and drama. **Credit units: 3 ECTS Credit Units: 4. Aut (G. Kurtuluş, S. Taşkın)**

**ELIT 215 Oral Expression and Public Speaking**
This course aims to enhance students' interest in using different methods of oral expression in order to improve their speaking skills through extensive drills and practice as well as using topics related to humanities, philosophy, the arts, music and media. **Credit units: 3 ECTS Credit Units: 4. Aut (G. Kurtuluş)**

**ELIT 223 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**
An introduction to life and society in Britain from the Middle Ages to the 19th century. This course will be conducted both by the teaching staff of the department and by guest speakers specializing on various aspects of the subject. **Credit units: 3 ECTS Credit Units: 6.**

**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: 4. Aut (D. B. Randall)**

**ELIT 261 The English Novel I (18th Century)**
A study of the major English novelists of the 18th century. **Credit units: 3 ECTS Credit Units: 6, Prerequisite: ELIT 139.**

**ELIT 262 The English Novel II (19th Century)**
A study of the major English novelists of the 19th century. **Credit units: 3 ECTS Credit Units: 6, Prerequisite: ELIT 139.**
ELIT 264 Writing London 1800-2000
This course will explore ways in which writers have written about London over the last two centuries. We will consider how the city of London has been represented in literature and how literary representations of London have shaped our imagining of the city. Topics and themes for study will include the crowd and the individual and the crowd, wandering in the city, the cityscape, cityscapes and how they are created and imagined, the city as the site of modernity and the contrasts between the country and the city. Credit units: 3 ECTS Credit Units: 6.

ELIT 270 Poetry
An introduction to poetry through selected examples written in English. Credit units: 3 ECTS Credit Units: 6. Spr (M. H. Çalışkan)

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.

ELIT 283 Short Story I
The course traces the development of the story through history. It aims to help students apply the technical terms and devices to their reading of the short stories. Credit units: 3 ECTS Credit Units: 6. Aut (R. Kayalar)

ELIT 284 Short Story II
The course concentrates upon authors from English speaking countries and aims to develop an awareness of the English language and literature in students. Credit units: 3 ECTS Credit Units: 6. Spr (R. Kayalar, S. Taşkın)

ELIT 326 Non-fictional Prose
An introduction to character writing, the literary essay, biography, travel writing, journalistic writing and other forms of non-fictional prose. Credit units: 3 ECTS Credit Units: 6. Prerequisite: ELIT 109 or ELIT 137 or ELIT 139.

ELIT 351 Shakespeare I (Comedies, Romances, Problem Plays)
Devoted to Shakespeare's romantic comedies, romances, and problem plays. Credit units: 3 ECTS Credit Units: 6. Prerequisite: ELIT 109 or ELIT 137 or ELIT 139.

ELIT 352 Shakespeare II (Tragedies, Roman Plays, Histories)
A study of Shakespeare's tragedies, Roman plays, and histories. Credit units: 3 ECTS Credit Units: 6. Prerequisite: ELIT 112 or ELIT 130 or ELIT 138.

ELIT 355 Major Writers of the Renaissance
A study of major works by principal dramatists other than Shakespeare: 16th century lyrics and sonnets; Metaphysical and Cavalier poetry, and Milton. Credit units: 3 ECTS Credit Units: 6. Prerequisite: ELIT 109 or ELIT 137 or ELIT 139.

ELIT 356 Major Writers of the Neoclassical Period
A study of selections from the major works of such writers as Dryden, Addison, Steele, Swift, Pope, Dr. Johnson, and Boswell. Credit units: 3 ECTS Credit Units: 6. Prerequisite: ELIT 112 or ELIT 130 or ELIT 138.

ELIT 357 Shakespeare
This third year course would look at variety of works by Shakespeare, ranging from romantic comedies, romances and problem plays to his tragedies, Roman plays and histories. During the semester, students will be able to develop their critical faculties basing their arguments upon a great deal of close reading of Shakespeare's plays. The course content will be enriched by the films, historical documents and criticism. Credit units: 3 ECTS Credit Units: 6. Aut (M. H. Çalışkan)

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: 6. Prerequisite: ELIT 109 or ELIT 137 or ELIT 139. Aut (V. Kennedy, A. Lake)

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, etc. Credit units: 3 ECTS Credit Units: 6. Prerequisite: ELIT 112 or ELIT 130 or ELIT 138. Spr (V. Kennedy, A. Lake)

ELIT 365 Literature of the 1890s: Real Colonies and Colonies of the Mind
The course will study selected examples of British Literature from the 1890s, focusing on three themes: self-division, women's situation, and imperialism and colonialism. The aim of the course is to set the works studied in their social, cultural, and political contexts, as well as to study them as examples of the prose, drama, and poetry of the time. Credit units: 3 ECTS Credit Units: 6.

ELIT 381 Short Story II
The aim of this course is to do an extensive study of British, American, and European short fiction. Credit units: 3 ECTS Credit Units: 6.
ELIT 411  History of English Language
This course is designed to develop students’ critical awareness of English Language by studying the original
texts starting from the Old English period till present. The physical changes in the language’s systems within
the rich framework of social, political, and cultural history will be explored. The course will not only concentrate
on the particular history of English, but also on the linguistic and social consequences which resulted from the
collision and intermingling of cultures due to conquest, trade, and migration. Credit units: 3 ECTS Credit Units: 5.

ELIT 413  Writing and Autobiography
The course will explore autobiographical writing through the study of autobiographies, confessions and diaries.
Alongside these, autobiographical elements in literary writings such as lyric and narrative poetry and the novel
will be considered. We will explore such questions as the relationship between autobiography and fiction, the
importance of memory in the creation of autobiographical texts and how identities and the self are represented
in autobiographical writings. Credit units: 3 ECTS Credit Units: 6.

ELIT 415  Environmental Literature
The course will follow the history of environmental writing in Britain and the United States and introduce sever-
alfinal publications, together with the study of certain texts varying from 18th century to 20th century.
Credit units: 3 ECTS Credit Units: 4. Spr (D. B. Randall)

ELIT 423  Theory and Practice of Criticism
A historical survey of literary criticism with emphasis on the 20th century. Methods of critical analysis will be
illustrated in the light of selected texts. Credit units: 3 ECTS Credit Units: 6, Prerequisite: ENG 201 or ELIT 261
or ELIT 223. Aut (R. Kayalar)

ELIT 431  World Literature
A survey of world literature covering a wide range of examples from British, Canadian Australian, South African,
Middle Eastern writings. Some representative writers can be Voltaire, Tolstoy, Kafka, Achebe, Marcia Marquez,
Rabindranath Tagore and Premchand. Credit units: 3 ECTS Credit Units: 4. Spr (D. B. Randall)

ELIT 433  Irish Writing
This course is designed to familiarize students with Irish literature, especially with contemporary Irish poets and
poetry. Credit units: 3 ECTS Credit Units: 6.

ELIT 435  Doubles and Mirror Images
The course would look at a variety of poems and fictional works from the 19th and 20th centuries, focusing on the
ways in which mirrors and other types of double image are used to dramatize questions of identity but also wider
social issues such as women’s position, power, class, and so on. Some critical and theoretical perspectives
would also be used to elucidate these texts. Credit units: 3 ECTS Credit Units: 4. Aut (V. Kennedy)

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: ENG 214 or ELIT 242 or ELIT 262. Spr (D. B.
Randall)

ELIT 441  British Drama I (from the Restoration to the 1950s)
A study of British Drama from the Restoration to the 1950s including works by such writers as Dryden, Congreve,
Gay, Behn, Pinero, Sheridan, Goldsmith, Wilde, Priestley, Shaw, Eliot, Synge and O’Casey. Credit units: 3 ECTS
Credit Units: 6, Prerequisite: ENG 201 or ELIT 261 or ELIT 223. Aut (G. Kurtuluş)

ELIT 442  British Drama II (from the 1950s to present)
Sequel to ELIT 441. Dramatists to be studied may include Beckett, Bolt, Osborne, Wesker, Pinter, Shaffer,
Arden, Stoppard, Churchill and Bond. Credit units: 3 ECTS Credit Units: 6, Prerequisite: ENG 214 or ELIT 242
or ELIT 262. Spr (G. Kurtuluş)

ELIT 444  Jacobean Tragedy
This course aims to students who studied Shakespeare in the third year. Ford, Massinger, Chapman, Beaumont
and Fletcher are among the dramatists who will be studied. Credit units: 3 ECTS Credit Units: 6.

ELIT 446  Recent American Cinema
The course will provide an introduction to recent decades of American film-making, beginning with the late 1960’s.
The focus will be on distinguished productions of the American mainstream; on films that is to say, which combine
artistic achievement with notable popular success. Thus, the course will represent work by such directors as
Mike Nichols, Woody Allen, Martin Scorsese, Ridley Scott and Spike Lee, and will showcase major actors such as
Jack Nicholson or Robert DeNiro. The course will present a varied selection with respect to the films’ style
and content, and the students will be expected to develop a basic competence in the language of film criticism.
However, our principal and continuous concern will be with discovering how the films reflect aspects of American
society and Culture. Credit units: 3 ECTS Credit Units: 6.
ELIT 449  Recent British Cinema
The course will provide an introduction to recent British films beginning with the 1970s. Its presentation will assume a certain familiarity with mainstream American film but will strive, by comparison and contrast with that more familiar terrain, to discern the specific character of British film-making. Some of the more prominent British directors and actors will be considered. The course will also present a varied selection with respect to the films’ style and content. Credit units: 3 ECTS Credit Units: 6.

ELIT 450  Introduction to Popular Culture
The aim of the course is to study basic theories, approaches and topics within popular culture. The course will examine different methods of popular culture, research and theories on which they are based. There will be in-depth study of international and global aspects of everyday life and popular culture such as consumer culture, mass media, entertainment, migration, technology. Credit units: 3 ECTS Credit Units: 6.

ELIT 456  Major Writers of the Victorian Period
Selections from the principal works of such writers as Tennyson, Browning, Carlyle, Ruskin and Arnold. Credit units: 3 ECTS Credit Units: 6, Prerequisite: ENG 214 or ELIT 242 or ELIT 262. Spr (A. Lake)

ELIT 462  Single Author Study
The course will be concerned to consider the writer’s writings in relation to themes including his/her concern with personal relationships and his/her representation of them in his/her novels. With its detailed focus on one author, the course will enable students to study the ways in which themes and concerns appear and reappear through the body of a writer’s work, within and across different genres. Credit units: 3 ECTS Credit Units: 6. Spr (A. Lake)

ELIT 463  Post-Colonial Fiction
A study of recent fiction written in English by authors coming from former colonies of the British Empire. Works by such authors as Chinua Achebe, Buchi Emecheta, V.S. Naipaul, Salman Rushdie, Hanif Kureishi, Kamala Markandaya, R.K. Narayan and Anita Desai may be discussed. Post-colonial theory will also be studied through the texts of Edward Said, Frantz Fanon, Homi Bhabha, Gayatri Spivak and Ngugi wa Thiong’o. Credit units: 3 ECTS Credit Units: 6, Prerequisite: ENG 201 or ELIT 261 or ELIT 223. Aut (V. Kennedy)

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: ENG 201 or ELIT 261 or ELIT 223. Aut (A. Lake)

ELIT 474  20th Century Poetry
A study of the dominant trends and major poets of the 20th century. Poets to be studied may include Hardy, Owen, Sassoon, Yeats, T.S. Eliot, MacDiarmid, Graves, Auden, Thomas, MacNeice, Larkin, Gunn, Hughes, Harrison and Heaney. Credit units: 3 ECTS Credit Units: 6, Prerequisite: ENG 214 or ELIT 242 or ELIT 262. Spr (S. Taşkın)

ELIT 475  Poetry of the World Wars
The proposed elective course in POETRY OF THE WORLD WARS would, as implied by the title, concentrate on the work of the principal poets of the time (i.e. Hardy, Edward Thomas, Wilfred Owen, Siegfried Sassoon, Isaac rosenberg, Ivor Gurney, David Jones, Henry Reed, Alun Lewis, Keith Dougles, etc.) It would also, however, be given broader context by relevant reference to examples from the tradition of war-writing both earlier (Homer, etc.) and later (Ford Madox Ford, Hemingway, etc.). The course would, in addition, usefully complement the existing courses in Twentieth Century Poetry and Modern British Fiction. Credit units: 3 ECTS Credit Units: 6.
DEPARTMENT OF PHILOSOPHY


The Department of Philosophy is one of the youngest departments at Bilkent. Established in late 2002, it 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, statistics, economics, languages, literature, 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, etc.) 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 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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<td>PHIL 101</td>
<td>Introduction to Logic</td>
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<td>Introduction to Philosophy I</td>
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<td>MATH 105</td>
<td>Introduction to Calculus I</td>
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<td>GE 100</td>
<td>Orientation</td>
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<td>CS 121</td>
<td>Introduction to Computing for Social Sciences</td>
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<td>English and Composition I</td>
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<td>TURK 101</td>
<td>Turkish I</td>
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<td>PHIL 102</td>
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<td>ENG 102</td>
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**SECOND YEAR**

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<tr>
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<tr>
<td>PHIL 203</td>
<td>Rationalists</td>
<td>3 / 6</td>
</tr>
<tr>
<td>PHYS 101</td>
<td>General Physics I</td>
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<tr>
<td>PHIL 204</td>
<td>Empiricists</td>
<td>3 / 6</td>
</tr>
<tr>
<td>PHYS 102*</td>
<td>General Physics II</td>
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</tr>
<tr>
<td>MBG 110*</td>
<td>Introduction to Modern Biology</td>
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<td>PSYC 100</td>
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* Students should take either PHYS 102 or MBG 110

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<tr>
<td>PHIL 305</td>
<td>Intermediate Logic</td>
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<td>PHIL 401</td>
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**THIRD YEAR**

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<td>PHIL 403</td>
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<td>Aesthetics</td>
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<td>PHIL 404</td>
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**SECOND FOREIGN LANGUAGE ELECTIVES**

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<td>HART 232</td>
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<td>HART 239</td>
<td>Latin I</td>
<td>3 / 6</td>
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<tr>
<td>HART 240</td>
<td>Latin II</td>
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with an emphasis on translating English sentences into logical symbols. A contemporary software package such

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<th>COURSE DESCRIPTIONS</th>
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<td>UNDERGRADUATE COURSES</td>
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<tr>
<td>PHIL 101  Introduction to Logic</td>
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<tr>
<td>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</td>
</tr>
</tbody>
</table>
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 (G. S. Bowe)

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. Wigley)

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 (M. E. Steen)

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 (J. Cowley)

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 (L. Thorpe)

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 (G. S. Bowe)

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 (J. Cowley)

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 (S. Berges, Y. S. Berkovski, T. M. Besch, G. S. Bowe, A. Rehberg, M. E. Steen, L. Thorpe, S. Wigley, W. Wringe)

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? Those questions 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 (S. Berges, Y. S. Berkovski, T. M. Besch, G. S. Bowe, A. Rehberg, M. E. Steen, L. Thorpe, S. Wigley, W. Wringe)

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. Wigley)

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.

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 (L. Thorpe)

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.

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 (Y. S. Berkovski)

PHIL 306 Philosophy of Language
We discuss key concepts such as: truth, meaning, reference, logical form, speech act and metaphor. In addition we 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 (Y. S. Berkovski)

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 (J. Cowley)

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 (M. É. Steen)

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.

PHIL 403 Senior Thesis I
The aim of PHIL 403 and PHIL 404 is the gradual development of each student's ability to carry out independent research. In PHIL 403, the student starts to work on a thesis addressing a chosen philosophical topic under the supervision of a faculty member. Credit units: 3 ECTS Credit Units: 6.

PHIL 404 Senior Thesis II
The aim of PHIL 403 and PHIL 404 is the gradual development of each student's ability to carry out independent research. In PHIL 404, the student writes and defends in front of a jury a thesis addressing the chosen philosophical topic. Credit units: 3 ECTS Credit Units: 6.

PHIL 405 Advanced Philosophy of Language
A continuation of PHIL 306 - Philosophy of Language, delving into advanced material. Credit units: 3 ECTS Credit Units: 6.

PHIL 406 Advanced Philosophy of Mind
A continuation of PHIL 308 - Philosophy of Mind, delving into advanced material. Credit units: 3 ECTS Credit Units: 6.

PHIL 407 Medieval Philosophy
This course gives an overview of philosophy during the middle ages (500-1400) while situating it within a broad social and cultural context. We consider major figures such as St. Augustine, St. Anselm, and St. Thomas, and study some of the main themes of medieval philosophy: the relationship between faith and reason, the existence of God and abstract entities, the nature of human knowledge. Credit units: 3 ECTS Credit Units: 6.
PHIL 408 Nineteenth Century Philosophy
This course covers the progress of thought in Europe after Kant. It focuses on the following topics: the study of culture and the human sciences, the rise and fall of idealism, historicism, modernity, critical philosophy after Kant. Emphasis is placed upon the work of authors like Schopenhauer, Hegel, Dilthey, Feuerbach, Kierkegaard, and Nietzsche. *Credit units: 3 ECTS Credit Units: 6. Spr (A. Rehberg)*

PHIL 409 Introduction to Phenomenology
Phenomenology is frequently regarded as movement of thought with methods contrasting the methods of science and analytic philosophy. It has been an intellectual force in Europe, influencing psychology, sociology, theology, and aesthetics. Its philosophical foundations are primarily due to Husserl. In addition to being an epistemological program, Husserlian phenomenology is also a theory about the nature of human consciousness and experience, focusing on *intentionality* and the role of *meaning*. This course concentrates on Husserl’s work and important extensions contributed by his student Heidegger. *Credit units: 3 ECTS Credit Units: 6.*

PHIL 410 History of Analytic Philosophy
In this course we examine the history of analytic philosophy starting with the foundational contributions of Frege and Russell. We discuss logical atomism, logical empiricism, Wittgenstein’s earlier and later work, ordinary language philosophy, Quine, and Kripke’s theory of reference. *Credit units: 3 ECTS Credit Units: 6.*
DEPARTMENT OF TURKISH LITERATURE

T. S. Halman (Chair), M. Kalpakli, L. Mignon, S. Oğuzertem, E. Sezer, N. Tezcan, H. Yavuz.

Part-time: K. Emiroğlu, Ö. Oğuz.

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, LES 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 33 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

PREP YEAR

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<td>EDEB 403</td>
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<td>EDEB 405</td>
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<td>EDEB 411</td>
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<td>EDEB 419</td>
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<td>Introduction to Turkish Literature II</td>
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<td>EDEB 412</td>
<td>Ottoman Turkish II</td>
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</table>
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”.

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FIRST YEAR

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<td>Turkish Folk Literature</td>
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<td>EDEB 505</td>
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<td>EDEB 526</td>
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SECOND YEAR

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ELECTIVES

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## CURRICULUM

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<td>EDEB 605 East and West in Turkish Literature</td>
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<td>EDEB 607 Modernism in Turkish Literature</td>
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<td>EDEB 611 Literature and Society I</td>
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<td>EDEB 615 Love in Turkish Literature</td>
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<td>EDEB 619 World Fiction</td>
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<td>EDEB 621 Seminar on the Mesnevi in Divan Literature</td>
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<tr>
<td>EDEB 614 Seminar on Yasar Kemal</td>
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<td>EDEB 616 Comparative Modern Turkish and Arabic Literature</td>
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<td>EDEB 618 Introduction to Semantics</td>
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<td>EDEB 620 Seminar on Evliya Celebi and the Seyahatname</td>
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<tr>
<th>Second Year</th>
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<tr>
<td>Autumn Semester</td>
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<tr>
<td>EDEB 699 Ph.D. Dissertation</td>
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<th>Spring Semester</th>
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<td>EDEB 699 Ph.D. Dissertation</td>
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## COURSE DESCRIPTIONS

### PREP YEAR 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 Lugat-ı 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:

**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 such literary genres 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:

**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: Aut (S. Oguzertem)

**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: Aut (S. Oguzertem)
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

EDEB 412  Ottoman Turkish II  
This course will enhance the students’ comprehension of the Ottoman script and the fundamentals of Ottoman-Turkish through readings and writing exercises. Credit units: 3 ECTS

EDEB 414  Introduction to Folk Literature  
This course will offer an historical survey of the major genres of Turkish folk literature including poetry, folk tale, the epic, and folk humor. Students will be introduced to significant scholarly works in the field as well. Credit units: 3 ECTS

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 Ataç, Cemal Süreya, 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

EDEB 419  The Turkish Short Story  
The origins of the contemporary short story in Turkish literature may be found in Aziz Efendi’s Muhayyelât, 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

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

EDEB 430  Yunus Emre  
Recent research on 13th-century Anatolian Turkish literature focuses on two poets: Sultan Veled and Yunus Emre. The latter has reached up through the centuries with his unique poetic language and sensibility, as well as through his imitators, and overall, as an inexplicable phenomenon. Generations of scholars have sought to reexamine and reinterpret Yunus Emre’s poems, which testifies to their intriguing quality. The course aims to deal with several poems by Yunus Emre and their scholarly interpretations. Credit units: 3 ECTS

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

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

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. Tanpinar’s XIX. Asır Türk Edebiyatı Tarihi. Credit units: 3 ECTS

EDEB 506  Literature of the Republic  
This course will offer an overview of the major developments in Turkish literature from the establishment of the Republic to the present. Significant literary movements and important changes in major genres (especially those
in poetry, drama, short story, the novel, and criticism) will be examined through texts representing the landmarks of 20th century Turkish literature. Critical appraisal of the historiography of the period is also part of the course. Credit units: 3 ECTS Credit Units: .

EDEB 507 Turkish Poetry
Following a brief overview of the process of change in Turkish poetry from Tazminat (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: . 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: . Spr (L. Mignon)

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: . Aut (K. Emirgâlu)

EDEB 512 Ottoman Turkish IV
This course aims at furnishing students with an understanding of problematic Ottoman texts. Credit units: 3 ECTS Credit Units: . Spr (K. Emirgâlu)

EDEB 513 Sufi Literature
The course is designed to study the literary output of Turkish Sufism from Ahmet Yesevi in the 12th century to Şeyh Galip in the 18th century. Following a precis of the mystical spirit in other religions and Islam (especially in Arab and Persian culture), it concentrates on Mevlâna Celâledge Rumi and Yunus Emre, on the tekke literature of the sects (which evolved in Anatolia since the 13th century), culminating in the Divan and folk Sufi traditions. Readings are mainly in poetry (including selections from the major mesnevis), but several prose pieces too are on the reading list. The course also deals with Sufi themes in Turkish literature from the Tanzimat until the present. Credit units: 3 ECTS Credit Units: .

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: .

EDEB 522 Readings in Old Anatolian Turkish
This course will introduce the students to Old Anatolia Turkish through readings of original texts. It will focus on the unique grammatical aspects of Old Ottoman. Credit units: 3 ECTS Credit Units: .

EDEB 523 13th Century Literature
13th century Anatolia witnessed an efflorescence of Islamic mysticism, sects, humanistic ideals, a new type of Islamic life and architecture, and folk humor and satire. It was an age dominated by such figures as Mevlâna Celâledge Rumi, Haci Bektaş Veli, Yunus Emre, Nâsreddin Hoca and others. This course will deal with Seljuk culture and literature. Readings will include selections from Rumi's Divan, Meseveleri, Rubaiyat, Yunus Emre's poetry and Nâsreddin Hoca anecdotes, etc. Credit units: 3 ECTS Credit Units: .

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: . Spr (S. Oğuzertem)

EDEB 525 Turkish Theatre
This course is designed to deal critically with traditional Turkish theatre (Meddah, Karagöz, and Ortaoyunu) and the evolution of the legitimate stage and dramatic literature from the mid - 19th century to the present day. It will be based on an historical survey of drama and on readings of selected plays and excerpts. Credit units: 3 ECTS Credit Units: .
EDEB 526  Divan Literature Through Texts
In this course several sample texts of Ottoman Divan literature, including those in the forms of münazara, sakiname, şehrgiz, 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: . Spr (N. Tezcan)

EDEB 529  Ottoman Culture Through Miniatures
This course on the Ottoman culture has one important distinguishing feature: It is accompanied by visual presentation of Ottoman miniatures. In Ottoman miniatures, Ottoman artists’ approach reflects objective truth with details. In the study of the Ottoman culture, these miniatures are as good as contemporary texts. This course will deal with: 1) Portraits; 2) Chronicles; 3) Literature; 4) Public festivals; 5) Religious thought and mythology; 6) Landscape and townscapes; 7) Daily life; 8) Scientific and encyclopedic subjects. Credit units: 3 ECTS Credit Units: .

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: .

EDEB 531  Turkish Traditional Theatre
The study of the popular theatre tradition constitutes the subject of this course. In the introductory part, information will be provided on some minor and lesser-known forms such as the acts of clowns, mime dancers both male and female, conjuring with dialogues, public story-teller Meddah, puppetry and marionette theatre. The main focus will be on two major forms: Orta Oyunu and Karagöz. There are great similarities between Karagöz and Orta Oyunu. The principal difference is that one uses puppets and the other live actors. There are numerous published scripts of both forms. The course will concentrate mainly on the reading and study of these texts. Some visual materials will be used such as slides and videos. Credit units: 3 ECTS Credit Units: .

EDEB 533  Turkish Immigrant Literature
This course will discuss the emergence and development of Turkish immigrant literature in Western Europe, mainly in Germany, France, the U.K. and the Netherlands. Emphasis will be on literary genres such as poetry, the novel and the short story written either in Turkish or in the local languages. The influence of Turkish and local literatures on those new texts will be among the key areas of investigation. Readings will consists of the works of significant writers and poets, whenever possible the original Turkish, German, English or French texts or their Turkish translations. Credit units: 3 ECTS Credit Units: .

EDEB 534  Advanced Reading in English
Starting off with a survey of the semantic features of English syntax, this course aims to provide proficiency in advanced readings within a short space of time. Readings in original literary and critical texts. Credit units: 3 ECTS Credit Units: .

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: . Aut (T. S. Halman)

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: . Spr (T. S. Halman)

EDEB 599  Master's Thesis
Credit units: None ECTS Credit Units: . Aut (Staff) Spr (Staff)

EDEB 603  Seminar on Yunus Emre
This doctoral seminar will deal with the emergence of Anatolian Sufism and its earliest poetic expression in the work of Yunus Emre. It will be based primarily on close critical readings of Yunus' verses, problems of biography and authenticity, his aesthetics and pantheism, the influence of his ideas and spirituality on later periods. On a comparative basis, the seminar will attempt to shed light on how Yunus Emre resembles or differs from other Sufi poets and European mystics and humanists. Credit units: 3 ECTS Credit Units: .

EDEB 605  East and West in Turkish Literature
From the Orhun Inscriptions to Orhan Pamuk, Turkish Literary history has transpired ever a vast geographic area from Eastern Asia to western Europe. Its hallmarks include orientations and dis-orientations, culturalretentions and intellectual tensions. This seminar will explore and the west. (not to exclude the south) It will deal with all periods and genres, but will heavily concentrate on fiction, modern poetry, criticism, and dramatic writing. Credit units: 3 ECTS Credit Units: .
EDEB 607 Modernism in Turkish Literature
This course will deal mainly with the repercussions of political and social aspects of Modernism qua Westernization 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: . 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 understanding. Credit units: 3 ECTS Credit Units: . Spr (H. Yavuz)

EDEB 610 Psychoanalytic Approaches to Turkish Literature
Designed to improve the comprehension of the psychodynamics of the narrator and the narrative in literary texts, the course will involve theoretical and applied work with an emphasis on the themes of identity formation, interpersonal relations, love and sexuality. Texts in the psychoanalytic tradition by such authors as Freud, Kernberg, Klein, and Winnicott as well as by other authors including Barthes, Dostoyevsky, Girard, Sartre, and Yalom will be read and discussed, in addition to those texts in Turkish that are chosen for analysis. The students are expected to participate actively in the presentation of texts and discussions, and write a term paper on a selected topic. Credit units: 3 ECTS Credit Units: . Spr (S. Quzerem)

EDEB 611 Literature and Society I
This seminar-type two-semester course examines the points of conjunction between intellectual and literary movements and works in the Turkish modernization, roughly formulated first by the Young Ottomans. Even though the major focus of the course is on the Republican period, some sources of this conflictual history could be traced out in the intellectual debates of the Young Ottomans, Young Turks, and the cadre of Progress and Order movement. Possible topics may include the considerations of the Young Ottomans, the Young Turks, the Progress and Order Movement, and Mustafa Kemal; the cultural policies of Turkish Republic; Language Reform; the Sun-Language Thesis; Nationalism; Poets of the Homeland; the Cadre Movement; Turkish-Islamic Synthesis and Pan-Turkism; Blue-Anatolia Movement and Humanism; Village Institutions and Village Novels; Social Realism and the Turkish left; the First and Second Modern movements in poetry, and so on. The perspective is primarily based on sociology of literature. Intended mainly for the PhD students of Department of Turkish Literature (DTL). Graduate students majoring in fields other than DTL can also be accepted by the consent of the instructor. Credit units: 3 ECTS Credit Units: .

EDEB 612 Literature and Society II
Credit units: 3 ECTS Credit Units: .

EDEB 614 Seminar on Yasar Kemal
This course is designed to critically examine the life and works of Yaşar Kemal, probably the most important novelist of twentieth-century Turkish literature. Although the course's emphasis will be on the author's novels, his output in other genres, including his short stories and journalistic writing will also be analyzed in terms of such issues related to Yaşar Kemal's art and ideology as gender, tradition, environment, orality, genre, and narrative technique. Requirements of the course include the presentation of texts and discussions, and an in-class presentation. Credit units: 3 ECTS Credit Units: .

EDEB 615 Love in Turkish Literature
Organized in seminars, this course will examine varying approaches to the theme of love in Turkish literature from the era of the Tanzimat to the present day. Though the focus will be mainly on poetry, other literary genres such as the novel, the short story and drama too will be considered. The impact of social change and ideological conflict on the narration of love and desire will be a key area of investigation. Credit units: 3 ECTS Credit Units: . Aut (L. Mignon)

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: . Spr (L. Mignon)

EDEB 618 Introduction to Semantics
A study of the fundamental principles of semantics with specific reference to semantics of Turkish through concrete, systematic, hands-on, interactive approach. A detailed investigation of different theories of meaning, and topics such as sense and reference, implicatures, definitions, form and meaning in language, and metaphor and other analogical transfers of meaning commonly used in literary styles. Credit units: 3 ECTS Credit Units: . Aut (E. Sezer)
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: .

EDEB 620  Seminar on Evliya Celebi and the Seyahatname
The *Seyahatname* ("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 *Seyahatname* 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 *Seyahatname* we investigate preconceptions regarding the work and discuss its value today. Credit units: 3 ECTS Credit Units: . Spr (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, character, 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: . Aut (N. Tezcan)

EDEB 630  Short Story in Western Literature
The rise of the modern short story as a literary genre in Europe and the United States in early nineteenth century and its development in French, Russian and English literatures. Understanding the literary characteristics of the short story through in-depth reading and criticism of the works of major authors of the genre. Readings will be done mainly in Turkish translations. Credit units: 3 ECTS Credit Units: . Spr (E. Sezer)

EDEB 632  Intensive French Language II
This course, for intermediate level students, is designed to enable Ph.D. Students to gain proficiency in reading literary and critical texts. Credit units: None ECTS Credit Units: . Spr (S. Güner)

EDEB 694  Dissertation Seminar
This course is designed to guide the Ph.D. students in their dissertation work. Research methods, literature review, elaboration of topics, and organization of material will be discussed in periodic meeting. Presentation in departmental seminars may be requested. Credit units: 1 ECTS Credit Units: .

EDEB 699  Ph.D. Dissertation
Credit units: None ECTS Credit Units: . Aut (Staff) Spr (Staff)
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 to be given in Turkish while some others representing an international character and/or which could be learned in a foreign language like philosophy, theory of state and politics, international business law, European Union Law etc. will be given in English. The basic philosophy of the Faculty is not to be a "school of a profession" but to have a character of a forum where the students could gain, in addition to basic professional knowledge, a scientific legal approach to follow and participate in the permanent development of the world facing the challenge of globalisation. The Faculty is conscious of the fact and the graduate program is structured in such a way that the students shall have the opportunity to gain and develop the ability of determining, searching for and achieving the appropriate information they need.

ACADEMIC STAFF

Tekin Akıllioğlu, Adjunct Professor

Ömer Faruk Erdem, Assistant Professor

M. Ali Erten, Adjunct Professor

Ece Göztepe Çelebi, Visiting Assistant Professor

Osman Gürzumar, Visiting Associate Professor
Ph.D., Law, Bern University, 1991. Civil law, competition law.

A. Rüchan İşik, Adjunct Professor

Tuğrul Katoğlu, Assistant Professor

Haluk Konuralp, Visiting Associate Professor

Erden Kuntalp, Adjunct Professor

İlber Ortaylı, Visiting Professor (on leave)
Ph.D., Political Science, University of Ankara, 1974. Ottoman Social History Russo-Turkish relations.

Ergun Özbudun, Professor

Sami Selçuk, Visiting Associate Professor

Turgut Tan, Professor

Hikmet Sami Türk, Adjunct Professor
Ph.D., Law, Köln University 1964. Commercial law, competition law, maritime law, constitutional law.
## PART-TIME ACADEMIC STAFF

Ruşen Keleş, Ph.D., Political Science and Public Administration, Ankara University, 1961. Urbanisation, housing and environmental politics, environmental law.
Funda Keskin, Ph.D., International Relations, Ankara University, 1990.

## UNDERGRADUATE CURRICULUM

### FIRST YEAR

#### Autumn Semester

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<th>Course Code</th>
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<td>LAW 101</td>
<td>Introduction to Law</td>
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<tr>
<td>LAW 103</td>
<td>Constitutional Law I</td>
<td>3 / 5</td>
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<tr>
<td>LAW 105</td>
<td>Civil Law I: Introduction to Civil Law-Basic Concepts-Law of Persons</td>
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<td>MATH 119</td>
<td>Statistics for Lawyers</td>
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<td>GE 100</td>
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<td>CS 121</td>
<td>Introduction to Computing for Social Sciences</td>
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<td>ENG 101</td>
<td>English and Composition I</td>
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<tr>
<td>TURK 101</td>
<td>Turkish I</td>
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#### Spring Semester

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<td>LAW 104</td>
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<td>LAW 106</td>
<td>Civil Law II Family Law</td>
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<tr>
<td>ECON 103</td>
<td>Principles of Economics</td>
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<td>ENG 102</td>
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<td>HCIV 101</td>
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### SECOND YEAR

#### Autumn Semester

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<tr>
<td>LAW 203</td>
<td>Criminal Law I</td>
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<td>LAW 205</td>
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<td>PHIL 241</td>
<td>Social and Political Philosophy I</td>
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<td>ENG 241</td>
<td>Sophomore Academic English I</td>
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<tr>
<td>HIST 201</td>
<td>History of Turkish Republic I</td>
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#### Spring Semester

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<tr>
<td>HIST 202</td>
<td>History of Turkish Republic II</td>
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### THIRD YEAR

#### Autumn Semester

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<tbody>
<tr>
<td>LAW 301</td>
<td>Civil Procedure Law I</td>
<td>3 / 5</td>
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<tr>
<td>LAW 303</td>
<td>Public International Law</td>
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<tr>
<td>LAW 305</td>
<td>Civil Law III/Law of Property I</td>
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<tr>
<td>LAW 307</td>
<td>Commercial Law I</td>
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<tr>
<td>LAW 309</td>
<td>Law of Obligations (Special Part)</td>
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<td>MAN 211</td>
<td>Principles of Accounting I</td>
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#### Spring Semester

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<tr>
<td>LAW 302</td>
<td>Civil Procedure Law II</td>
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<tr>
<td>LAW 304</td>
<td>Private International Law</td>
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<td>LAW 306</td>
<td>Civil Law III/Law of Property II</td>
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<td>LAW 308</td>
<td>Commercial Law II</td>
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<td>LAW 358</td>
<td>Criminal Law (Special Part)</td>
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<td>MAN 216</td>
<td>Elements of Finance</td>
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### FOURTH YEAR

#### Autumn Semester

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<td>LAW 401</td>
<td>Commercial Law III</td>
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<tr>
<td>LAW 403</td>
<td>Civil Law IV/Inheritance Law</td>
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<tr>
<td>LAW 407</td>
<td>Tax Law</td>
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<td>LAW 409</td>
<td>Intellectual and Industrial Property Law</td>
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<td>LAW 411</td>
<td>Criminal Procedure Law</td>
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<td>LAW 412</td>
<td>Labor Law</td>
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<td>LAW 413</td>
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#### Spring Semester

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<td>LAW 402</td>
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<td>LAW 405</td>
<td>International Human Rights Law</td>
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<td>LAW 406</td>
<td>International Business law</td>
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<tr>
<td>LAW 408</td>
<td>Competition Law</td>
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<td>LAW 410</td>
<td>Enforcement and Bankruptcy Law</td>
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### ELECTIVES

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<tr>
<td>LAW 352</td>
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<td>LAW 353</td>
<td>Environmental Law</td>
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<td>LAW 354</td>
<td>Modern Contracts Law</td>
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<tr>
<td>LAW 355</td>
<td>History of Turkish Law</td>
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<td>LAW 356</td>
<td>Comparative Private Law</td>
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<tr>
<td>LAW 357</td>
<td>Introduction to Anglo-American Law</td>
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<tr>
<td>LAW 360</td>
<td>Public Finance</td>
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<tr>
<td>LAW 420</td>
<td>International Commercial Arbitration</td>
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<td>LAW 421</td>
<td>Internet Law</td>
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<td>LAW 422</td>
<td>Maritime Law</td>
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<td>LAW 423</td>
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<td>LAW 424</td>
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<td>LAW 425</td>
<td>Forensic Medicine</td>
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<tr>
<td>LAW 427</td>
<td>Citizenship and Foreigners Law</td>
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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 sources; 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: 5. Aut (T. Akıllıoğlu, E. Göztepe Çelebi)

**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 securites) Law of Obligations: Law of contracts (real, literal, verbal and consensual contracts); Quasi contracts (condictio-negotiorum gestio); Law of delicts (Furtum-Ratina-Iniuria-Damnum inuria datum); Quasi delicts Transfer and discharge of obligations. (in Turkish) Credit units: 3 ECTS Credit Units: 5. Aut (T. Akıllıoğlu, E. Göztepe Çelebi)

**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. Göztepe Çelebi, E. Özbudun, H. S. Türk)

**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. Spr (E. Göztepe Çelebi, E. Özbudun, H. S. Türk)

**LAW 105 Civil Law-I: Introduction to Civil Law-Basic Concepts-Law of Persons**
Subject matter, historical background, sources and application of civil law. Basic Concepts: Right, acquisition of rights and legal transactions; good faith (bonafides); protection of rights. Natural Persons: Beginning and end of personality, capacities, civil status, protection of personality. Legal Persons. (in Turkish) Credit units: 3 ECTS Credit Units: 5. Aut (M. A. Erten, O. Gürzumar)

**LAW 106 Civil Law II Family Law**
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 especially the parental power (patria potestas). Family in broader sense. Guardianship (guardianship in technical sense, curatorship, statutory advisors). (in Turkish) Credit units: 3 ECTS Credit Units: 5. Spr (M. A. Erten, O. Gürzumar)

**LAW 201 Law of Obligations I**
Concepts of “obligational relation” and “obligation”, sources of obligations, formation and validity of legal transactions; in particular contracts, relation of representation, torts and unjust enrichment. (in Turkish) Credit units: 3 ECTS Credit Units: 6. Aut (M. Başgül)

**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: 6. Spr (M. Başgül, 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 defences; 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 (T. Katoğlu, S. Selçuk)

**LAW 204 Criminal Law II**

**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. Akıllıoğlu, 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 state and its agents. (in Turkish) Credit units: 3 ECTS Credit Units: 6. Spr (T. Akıllıoğlu, T. Tan)
LAW 301  Civil Procedure Law I
This course covers the procedural regulation of private law such as the rules about commencing an action (in general, summary procedure, ordinary procedure), evidence gathering and burden of proof, rendition of judgment, appeal procedure, arbitration. (in Turkish) Credit units: 3 ECTS Credit Units: 5. Aut (H. Konuralp)

LAW 302  Civil Procedure Law II
This course covers the procedural regulation of private law such as the rules about commencing and action (in general, summary procedure, ordinary procedure), evidence gathering and burden of proof, rendition of judgment, appeal procedure, arbitration. (in Turkish) Credit units: 3 ECTS Credit Units: 5. Spr (H. Konuralp)

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. Aut (F. Keskin)

LAW 304  Private International Law
A course offering an insight into the conflict of laws, international procedure law, law of citizenship and law of foreigners. (in Turkish) Credit units: 3 ECTS Credit Units: 6. Spr (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. Aut (L. Sirmen)

LAW 306  Civil Law III: Law of Property II
This course offers a study of ownership and restricted real rights (servitudes, mortgage, pledge and land charges). (in Turkish) Credit units: 3 ECTS Credit Units: 5. Spr (Ç. Kırca)

LAW 307  Commercial Law I
This course offers a comprehensive study of law of commercial enterprises and valuable written instruments (commercial papers) such as checks, promissory notes and bills of exchange. (in Turkish) Credit units: 3 ECTS Credit Units: 5. Aut (İ. Kırca, H. S. Türk)

LAW 308  Commercial Law II
This course deals with Law of Partnerships and Corporations. (in Turkish) Credit units: 3 ECTS Credit Units: 5. Spr (İ. Kırca)

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 maybe faced with in modern business life. (in Turkish) Credit units: 2 ECTS Credit Units: 4. Aut (E. Kuntalp)

LAW 352  Public Economic Law

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. Aut (R. Keleş)

LAW 354  Modern Contracts Law
This course deals with all legal aspects of contracts newly introduced to the legal field due to the increase in international relations, technological developments and globalization. (in Turkish) Credit units: 2 ECTS Credit Units: 4. Spr (E. Kuntalp)

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. Credit units: 2 ECTS Credit Units: 4. Aut (İ. Ortaylı)

LAW 356  Comparative Private Law
A study and comparative analysis of various legal systems, focusing on the main features of private law. Credit units: 2 ECTS Credit Units: 4. Spr (H. Emirgil)

LAW 357  Introduction to 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. Aut (G. Gürkaynak)
**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. Credit units: 2 ECTS Credit Units: 4. Spr (T. Katoğlu)

**LAW 360**  Public Finance
This course investigates government activities, taxing and spending. The emphasis of the course will be microeconomic analysis of expenditure and taxing activities. It covers topics as public goods, political economy and externalities. Credit units: 2 ECTS Credit Units: 4. Spr (K. Mutluer)

**LAW 401**  Commercial Law III
This course deals with the subjects of negotiable instruments law. (in Turkish) Credit units: 3 ECTS Credit Units: 5. Aut (H. Karan)

**LAW 402**  Commercial Law IV
This course deals with the subjects of insurance law. (in Turkish) Credit units: 3 ECTS Credit Units: 5. 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 depts of a person at his death. (in Turkish) Credit units: 3 ECTS Credit Units: 5. Aut (Ş. Akipek)

**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 (Staff)

**LAW 406**  International Business Law
A course dealing especially with international business transactions. Credit units: 3 ECTS Credit Units: 4. Spr (Staff)

**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. Income tax, corporation tax and value added tax are very important elements of the Turkish tax system; these three components will be described theoretically and practically during the course. Credit units: 3 ECTS Credit Units: 3. Aut (K. Mutluer)

**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 of dominant position, mergers and acquisitions, procedural rules applied in competition law practice. (in Turkish) Credit units: 3 ECTS Credit Units: 4. Spr (G. Gürkaynak)

**LAW 409**  Intellectual and Industrial Property Law
This course deals not only with intellectual property rights in a brief sense but also and especially with industrial property rights which represent a special importance such as the patents. Credit units: 2 ECTS Credit Units: 4. Aut (S. Çörtعلومات)

**LAW 410**  Enforcement and Bankruptcy Law
A course giving an insight into the enforcement of rights and judgments. A survey of insolvency proceedings is also included. (in Turkish) Credit units: 3 ECTS Credit Units: 6. Spr (H. Konuralp)

**LAW 411**  Criminal Procedure Law
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. Katoğlu)

**LAW 412**  Labor Law
The main subject matters of this course are contract of employment and collective labor law (law of labor unions, collective labor agreements). (in Turkish) Credit units: 3 ECTS Credit Units: 6. Aut (A. R. Işık)

**LAW 413**  European Union Law
The distinctive characteristics of European Union Law (the supranational character, the direct application, the priority etc.); the sources of European Union Law (treaties, secondary norms, agreements, sui generis norms, complementary law); European Court of Justice (structure, competences, procedure). Credit units: 3 ECTS Credit Units: 3. Aut (T. Arat)
LAW 414  Labour Law II
This course comprises two main sections. First section of the course deals with collective labour disputes as well as the law of strikes and lockouts. Second section offers an insight into the social security law. Credit units: 3 ECTS Credit Units: .

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. Spr (Staff)

LAW 421  Internet Law
This course gives an insight into the main legal problems of internet and their solutions especially in the field of criminal law on a comparative basis. (in Turkish) Credit units: 2 ECTS Credit Units: 4. Aut (CÜnal)

LAW 422  Maritime Law
This course covers especially the ship owners liability, the agreement of freight and maritime accidents. (in Turkish) Credit units: 2 ECTS Credit Units: 4. Spr (Staff)

LAW 423  Law of Capital Market
This course covers especially the ship owners liability, the agreement of freight and maritime accidents. (in Turkish) Credit units: 2 ECTS Credit Units: 4. Spr (Staff)

LAW 424  EU Substantive Law
This course deals with the treaties underpinning the EU, the institutional structure of the EU, the Law-making procedures of the EU. Credit units: 2 ECTS Credit Units: 4. Aut (Ç. Manavgat)

LAW 425  Forensic Medicine
This course deals with the application of the medicine as an instrument of evidence. (in Turkish) Credit units: 2 ECTS Credit Units: 4.

LAW 426  Comparative Labour Law in EU
The main subjects of this course are as follows: Comparativism in labour law and industrial relations documentation, comparative study in labour law using the internet actors; sources of regulation, international developments, freedom of association; job creation and labour law; social policy from Rome Treaty to today. Credit units: 2 ECTS Credit Units: .

LAW 427  Citizenship and Foreigners Law
This course deals with law of citizenship and Foreigners. Credit units: 2 ECTS Credit Units: . Aut (B. Tiryakıoğlu)

LAW 429  Comparative Industrial Relations in EU
This course focuses on social policies and industrial relations in EU with special references to Turkey. Industrial revolution and its consequences as social policy tool emergence of trade unions and employers’ organisations. Basic institutions of industrial relations in industrialized market economies particularly in EU. From master and servant to individual employment relations and to collective bargaining. European trade union movement, European workers’ and employers’ organisations. In a unions. The key issues in HR management: leadership, pay for performance, effectiveness, technology, flexible work arrangements: job redesign, flexible time and place: telecommuting, learning and innovation. New trends: De-regulation, the dual society: the informal economy, security of employment and employability, equality and prohibition of discrimination in employment. Vulnerable groups as women, youth, child handicapped, migrant; equal opportunities in EU, equality and prohibition of discrimination in employment and working conditions: poverty and exclusions. The changing world of work: The network society: Information technologies, externalization and outsourcing; chains of SME’s. Social responsibility, stakeholders. Credit units: 2 ECTS Credit Units: .

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. Aut (Ç. F. Erdem)

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. Spr (Ç. F. Erdem)
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 aim of the Faculty is 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.

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**Selen Akçora**, Instructor  
M.M., Clarinet, Bilkent University, 1998. Member, BSO.

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B.M., Choral Conducting, Sofia State Conservatory, 1984.

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M.M., Chamber Music, Bilkent University, 1995.

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B.M., Viola, Tashkent State Conservatory, 1973. Member, BSO.

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M.M., Violin, Bilkent University, 1995. Member BSO.

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Sarvar Ganiev, Visiting Professor

Nermina Ganieva, Instructor

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D.M.A., Aspirantura, Violoncello, Azerbaijan State Conservatory, 1980. Member, BSO.

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B.M., Viola, Leningard State Conservatory, 1981. Member, BSO.

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M.M., Violin, Bilkent University, 1997. Member, BSO.

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B.M., Trombone, Hacettepe University, 2002. Principle Trombone BSO.

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M.M., Choral Conducting, Sofia State Conservatory, 1968. Conductor, “Bilkent Youth Choir”.

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M.M., Clarinet, Conservatoire Régional de Musique de Rouen, 1996. Principle Clarinet, BSO.

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D.M.A., Proficiency in Art, Composition, Bilkent University, 2003.

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B.M., Opera Singing, Hacettepe University, 1966.

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Kağan Korad, Instructor

Peter Körner, Instructor
D.M.A., Konzertexamen - Doctor Arbeit, Trombone, Hochschule für Musik, München, 2002. Member, BSO.

Vseslava Kudinova, Instructor
M.M., Violin, Bilkent University, 1999. Member, BSO.
Elif Kusultan, Instructor
M.M., Viola, Bilkent University, 2004. Member, BSO.
Bahar Kutay, Instructor
M.M., Violin, Bilkent University, 1995. Member, BSO.
Merab Loria, Instructor
Iulian Lupu, Instructor
Violeta E. Lupu, Instructor
Sergi Margulis, Instructor
Aydın Mecid, Instructor
Alexey Medvedev, Instructor
B.M., Trombone, Moscow “Tchaikovsky” State Conservatory, 1990. Member, BSO.
Naile Mehdiyeva, Visiting Professor
Irşad Mehmet, Instructor
B.M., Viola, Azerbaijan State Conservatory, 1981. Member, BSO.
Işın Metin, Assistant Professor
D.M.A., Proficiency in Art, Composition, Bilkent University, 2000.
Vanya Milanova De Keyser, Instructor
M.M., Violin, Guildhall School of Music.
Leonid Mironiuk, Instructor
M.M., Horn, Leningrad “Petrozavodsky” State Conservatory, 1979. Member, BSO.
Arif Mühsunoğlu, Instructor
B.M., Violin, Azerbaijan State Conservatory, 1984. Member, BSO.
Tsotne Nakashidze, Instructor
Raguim Namazov, Instructor
B.M., Percussion, Azerbaijan State Conservatory, 1994. Member, BSO.
İrina Nikotina, Instructor
M.M., Violin, Tashkent State Conservatory, 1983. Member, BSO.
Maria Nowotna, Instructor
İskander Okeev, Instructor
B.M., Violin, “Gnessin” State Institute of Music, 1986. Member, BSO.
Erkin Onay, Instructor
D.M.A., Proficiency in Art, Bilkent University, 2005. 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”.
Verda Özel, Instructor
M.M., Violoncello, Bilkent University, 1998. Member, BSO.
Albena Petrova, Instructor
M.M., Flute, Sofia State Music Academy, 1995. Principle Flute BSO.

Elena Postnova, Instructor
D.M.A., Proficiency in Art, Violin, Bilkent University, 1998. Member, BSO.

Artur Rahmatulla, Instructor
M.M., Violoncello, Moscow “Tchaikovsky” State Conservatory, 1982. Member, BSO.

Sardor Rasulov, Instructor
M.M., Violoncello, Moscow “Tchaikovsky” State Conservatory, 1982. Member, BSO.

Uluğbek Rishi, Instructor
B.M., Viola, Tashkent State Conservatory, 1985. Member, BSO.

Elena Rykhsiyeva, Instructor
B.M., Violin, Tashkent State Conservatory, 1986. Member, BSO.

Sekina Saidova, Instructor
B.M., Viola, Moscow “Tchaikovsky” State Conservatory, 1973. Member, BSO.

Sertan Sancar, Instructor

Fazıl Say, Artist in Residence

Aysçe Sezer, Instructor

Teymur Shamsiye, Instructor

Zurab Sikharulidze, Instructor

Shota Skhirtladze, Instructor

Svetlana Smolina, Instructor
B.M., Viola, Tashkent State Conservatory, 1986. Member, BSO.

Andre Marie-Louise Sommer, Instructor
M.M., Piano, Theory, 1er Prix Conservatoire National Superieur de Paris.

Ivanka Gospodinova Soykan, Instructor

Stiliana Stavreva Markova, Instructor

Janusz Szprot, Instructor
M.M., Musicology, Warsaw University, 1974.

Emre Şen, Instructor

Emil Tabakov, Instructor
B.M., Conducting, Bulgarian Music Academy, 1978. Music Director, BSO.

Aida Tagi-Zade, Instructor

Kürşad Terci, Instructor

Andrey Trifonov, Instructor
B.M., Diploma, Tuba, Moscow “Tchaikovsky” State Conservatory, 1985. Member, BSO.

Zurab Tsitsuachvili, Instructor
M.M. Double Bass, Tbilisi State Conservatory, 1993. Member, BSO.
Muhammedjan Turdiev, Instructor

Yiğit Ülgen, Instructor
D.M.A., Proficiency in Art, Violoncello, Bilkent University, 1999. Member, BSO.

Leonid Volkov, Instructor
B.M., Clarinet, Moscow “Tchaikovsky” State Conservatory, 1993. Member, BSO.

Rafiq Zamanov, Instructor
B.M., Violin, Azerbaijan State Conservatory, 1977. Member, BSO.

Zita Zempleni, Instructor

Dmitri Zlotovski, Instructor
B.M., Bassoon, Moscow “Tchaikovsky” State Conservatory, 1994. Principle Bassoon, BSO.

Vladimir Zverev, Instructor

VOCATIONAL SPECIALISTS

Guram Apkhazava
B.S., Tbilisi University, Georgia, 1969. Translator.

Leonard Chelov

Nuri Özkayol

Anzor Shamugia
B.S., Tbilisi State University, Faculty of Geography and Geology. Translator.

PART-TIME ACADEMIC STAFF

Arzu Açıkalin, B.M., Composition, Bilkent University, 2003.


Hamdi Bektas, B.M., Gazi University, 1959.


Oylun Erdayi, B.M., Singing, Hacettepe University, 1992.


Dimitar Stefanov Hristov, M.A., Higher Institute of National Economy, 1970. Librarian BSO.

Sükün İşitan, B.A., Acting, Bilkent University, 1998.


Leyla Mamedova, M.M., Composition, Bilkent University, 2004.
Orhun Fazlı Orhon, M.M., Composition, Bilkent University, 2004.
Ayşe Gülüm Sürmen, B.M., Piano, Hacettepe University, 2002.
Sadaget Velibekova, B.M., Piano, Azerbaijan State Conservatory.
Akif M. Yeşilkaya, M.A., Directing, Bilkent University, 2005.
DEPARTMENT OF MUSIC


The Faculty’s departments are today internationally renowned for their excellence in education, international artistic ensembles and activities. Since it’s 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. The Institute of Music and Performing Arts was established to provide graduate education through its Master’s and Proficiency in Art (doctorate) level programs.

The Music Department offers Bachelor of Music-B.M., Master of Music-M.M, Proficiency in Art/Doctor of Music-D.M.A. degrees in the following areas:

Theory and Composition Option - B.M., M.M., D.M.A.
Music Theory, Composition.

Instrument Option - B.M., M.M., D.M.A.
- 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", "Palermes 30. Concours International de Musique et d’Art Sonore Electroacoustiques", IBLA, Charles B. Olson Young Composers Competition. 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 Florilege Vocal de Tours 2004 competition in France.
**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 in the Faculty from various countries as well as Turkish and foreign young artists, who continue their studies at “masters” and “proficiency in art” (doctorate) levels, at the Institute. With these characteristics the Bilkent Symphony Orchestra, consisting of 90 proficient artists from 12 different countries, 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 a minimum of 50 concerts a year 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; to help gain permanent academic staff at the Faculty; 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 recently to Japan. The orchestra has recorded over 40 CD’s with labels such as BMP and EMI.

### UNDERGRADUATE PROGRAMS
#### COMPOSITION OPTION

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**Instrument Option**

**FIRST YEAR**

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**GRADUATE PROGRAM**

The aim of the graduate program is to train professional artists in the areas of performance and creativity, and to prepare them for further development in the fields of music education, research, and musicianship. Candidates should possess a good undergraduate degree in one of the major subject areas and be successful in the entrance examination. Since 1997 the recording production of two compact discs comprising solo, accompanied and chamber repertoire per student has become mandatory for graduation. (Also refer to the "Graduate Admissions" section in the introduction of this catalog for the general graduate admission requirements.)
The students will have the opportunity to study and develop under the direction of internationally renowned Turkish and foreign artists at the Faculty, and to display the knowledge and experience they acquire in recitals and concerts. These public performances 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.

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### GRADUATION

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<td>MUS 606</td>
<td>Orchestra Repertoire IV (String-Wind)</td>
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<td>MUS 670</td>
<td>Instrument IV</td>
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<tr>
<td>MUS 674</td>
<td>Chamber Music Repertoire IV</td>
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<tr>
<td>MUS 600</td>
<td>Graduation Project</td>
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**SINGING OPTION**

**FIRST YEAR**

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<td>MUS 538</td>
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<td>Stage II</td>
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<td>Character and Techniques of Make-up</td>
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<td>MUS 637</td>
<td>Diction</td>
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<td>MUS 863</td>
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## CURRICULUM FOR THE PROFICIENCY IN MUSIC PROGRAM

### COMPOSITION OPTION

#### FIRST YEAR

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#### SECOND YEAR

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<td>Twentieth Century Music</td>
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<td>Composition IV</td>
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<td>MUS 988</td>
<td>Orchestration IV</td>
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### INSTRUMENT OPTION

#### FIRST YEAR

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## SECOND YEAR

### Autumn Semester

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<tr>
<td>MUS 981</td>
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<td>MUS 997</td>
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## GRADUATION

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<tbody>
<tr>
<td>MUS 866</td>
<td>Graduation Project</td>
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## COURSE DESCRIPTIONS

### MUSS 101  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:** 7 ECTS Credit Units: 12.


### MUSS 102  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:** 7 ECTS Credit Units: 12, Prerequisite: MUSS 101.


### MUSS 103  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:** 7 ECTS Credit Units: 14, Prerequisite: MUSS 102.


### MUSS 104  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:** 7 ECTS Credit Units: 14, Prerequisite: MUSS 103.


### MUSS 105  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 musicality 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:** 7 ECTS Credit Units: 16, Prerequisite: MUSS 104.


### MUSS 106  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:** 7 ECTS Credit Units: 16, Prerequisite: MUSS 105.

MUSS 107 Instrument VII

MUSS 108 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: 9 ECTS Credit Units: 16, Prerequisite: MUSS 107. Spr (C. Akçora, G. Aziz, A. Babacan, C. Câfer, D. Gani, S. Ganiev, E. Gnezdilova, K. Korad, P. Körner, I. Lupu, E. Onay, S. Rasulov, U. Rishi, Z. Tsitsuachvili, M. Turdiev)

MUSS 109 Musical Analysis Romantic Repertoire
This course aims to introduce the important musical forms, styles, compositional techniques, literature of the romantic period and contributions of the major composers of this era to the Romantic Period music. Credit units: 2 ECTS Credit Units: . Aut (İ. A. Baran) Spr (İ. A. Baran)

MUSS 110 Musical Analysis Impressionist Repertoire
This course aims to introduce the important musical forms, styles, compositional techniques, literature of the impressionist period and contributions of the major composers of this era to the Impressionist Music. Credit units: 2 ECTS Credit Units: .

MUSS 123 Chamber Music I
Score analysis, discussion and study of various composers' principal chamber works. Comparison 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 (E. Gnezdilova, E. Önal, Y. Ülegen)

MUSS 124 Chamber Music II
Analysis and application of the interpretative styles of the selected repertoire. Practices on the selected repertoire towards achieving unity and balance 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: MUSS 123. Aut (E. Gnezdilova, K. Terci, Y. Ülegen)

MUSS 125 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: MUSS 124. Aut (E. Gnezdilova, P. Körner, E. Önal, Y. Ülegen, V. Zverev)

MUSS 126 Chamber Music IV
Performance of the classic era repertoire consisting of works by Schubert, Schumann and Mendelssohn. Group study on the pieces towards achieving brilliance in balance and unity of the ensemble. Credit units: 3 ECTS Credit Units: 6, Prerequisite: MUSS 125. Aut (E. Gnezdilova, P. Körner, Y. Ülegen, V. Zverev)

MUSS 127 Chamber Music V
Analytic analysis of the repertoire and interpretation styles of the romantic and contemporary chamber music repertoire consisting of Beethoven's late quartets and Brahms's chamber compositions. Introduction to the chamber music compositions of Turkish Composers. Study and practices with the aim of achieving maturity in stage performance. Credit units: 3 ECTS Credit Units: 6, Prerequisite: MUSS 126. Aut (E. Gnezdilova, P. Körner, E. Önal, S. Stavreva Markova, Y. Ülegen, V. Zverev)

MUSS 128 Chamber Music VI
Analytic analysis and interpretation of the contemporary chamber music repertoire consisting of compositions by Dvorak, Shostakovitch, Ravel, Debussy, Webern, Bartok, Saygun, Erkin. Credit units: 3 ECTS Credit Units: 6, Prerequisite: MUSS 127. Aut (E. Gnezdilova, Y. Ülegen)

MUSS 141 Orchestra I (String-Wind)
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: 3 ECTS Credit Units: . Aut (H. Kalkan)
MUSS 142  Orchestra II (String-Wind)
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: 3 ECTS Credit Units: , Prerequisite: MUSS 141. Aut (H. Kalkan) Spr (H. Kalkan)

MUSS 143  Orchestra III (String-Wind)
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: 3 ECTS Credit Units: , Prerequisite: MUSS 142. Aut (H. Kalkan) Spr (H. Kalkan)

MUSS 144  Orchestra IV (String-Wind)
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: 3 ECTS Credit Units: , Prerequisite: MUSS 143. Aut (H. Kalkan) Spr (H. Kalkan)

MUSS 145  Orchestra V (String-Wind)
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: 3 ECTS Credit Units: , Prerequisite: MUSS 144. Aut (H. Kalkan) Spr (H. Kalkan)

MUSS 146  Orchestra VI (String-Wind)
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: 3 ECTS Credit Units: , Prerequisite: MUSS 145. Aut (H. Kalkan) Spr (H. Kalkan)

MUSS 147  Orchestra VII (String-Wind)
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: 3 ECTS Credit Units: , Prerequisite: MUSS 146. Aut (H. Kalkan) Spr (H. Kalkan)

MUSS 148  Orchestra VIII (String-Wind)
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: 3 ECTS Credit Units: , Prerequisite: MUSS 147. Spr (H. Kalkan)

MUSS 151  Ensemble I (Guitar-Wind)
Ensembles consisting of guitar duets, trios and quartets in combination with various wind instruments. Selected repertoire listing to be performed throughout the semesters. Credit units: 3 ECTS Credit Units: 4. Aut (K. Terci) Spr (Staff)

MUSS 152  Ensemble II (Guitar-Wind)
Ensembles consisting of guitar duets, trios and quartets in combination with various wind instruments. Selected repertoire listing to be performed throughout the semesters. Credit units: 3 ECTS Credit Units: 4, Prerequisite: MUSS 151. Aut (K. Terci) Spr (K. Terci)

MUSS 153  Ensemble III (Guitar-Wind)
Ensembles consisting of guitar duets, trios and quartets in combination with various wind instruments. Selected repertoire listing to be performed throughout the semesters. Credit units: 3 ECTS Credit Units: 4, Prerequisite: MUSS 152. Aut (K. Terci)

MUSS 154  Ensemble IV (Guitar-Wind)
Ensembles consisting of guitar duets, trios and quartets in combination with various wind instruments. Selected repertoire listing to be performed throughout the semesters. Credit units: 3 ECTS Credit Units: 4, Prerequisite: MUSS 153. Spr (K. Terci)
MUSS 155  Ensemble V (Guitar-Wind)
Ensembles consisting of guitar duets, trios and quartets in combination with various wind instruments. Selected repertoire listing to be performed throughout the semesters. Credit units: 3 ECTS Credit Units: 4, Prerequisite: MUSS 154. Aut (K. Terci)

MUSS 156  Ensemble VI (Guitar-Wind)
Ensembles consisting of guitar duets, trios and quartets in combination with various wind instruments. Selected repertoire listing to be performed throughout the semesters. Credit units: 3 ECTS Credit Units: 4, Prerequisite: MUSS 155. Spr (K. Terci)

MUSS 157  Ensemble VII (Guitar-Wind)
Ensembles consisting of guitar duets, trios and quartets in combination with various wind instruments. Selected repertoire listing to be performed throughout the semesters. Credit units: 3 ECTS Credit Units: 4, Prerequisite: MUSS 156. Aut (K. Terci)

MUSS 158  Ensemble VIII (Guitar-Wind)
Ensembles consisting of guitar duets, trios and quartets in combination with various wind instruments. Selected repertoire listing to be performed throughout the semesters. Credit units: 3 ECTS Credit Units: 4, Prerequisite: MUSS 157.

MUSS 171  Accompanying I (Piano)
A must course for piano major students, elective for composition students. The course follows methods designed by Prof. Odette Gartenlaub for the CNMP. Aiming to enhance the keyboard skills along with improvisation, harmonization at the keyboard and sight playing for pianists. Each student accompanies various instrument classes from the Bilkent Music Preparatory Schools with the attendance of the instructor. Credit units: 3 ECTS Credit Units: , Aut (A. M. Sommer)

MUSS 172  Accompanying II (Piano)
A must course for piano major students, elective for composition students. The course follows methods designed by Prof. Odette Gartenlaub for the CNMP. Aiming to enhance the keyboard skills along with improvisation, harmonization at the keyboard and sight playing for pianists. Each student accompanies various instrument classes from the Bilkent Music Preparatory Schools with the attendance of the instructor. Credit units: 3 ECTS Credit Units: , Prerequisite: MUSS 171. Spr (A. M. Sommer)

MUSS 173  Accompanying III (Piano)
A must course for piano major students, elective for composition students. The course follows methods designed by Prof. Odette Gartenlaub for the CNMP. Aiming to enhance the keyboard skills along with improvisation, harmonization at the keyboard and sight playing for pianists. Each student accompanies various instrument classes from the Bilkent Music Preparatory Schools with the attendance of the instructor. Credit units: 3 ECTS Credit Units: , Prerequisite: MUSS 172. Aut (A. M. Sommer) Spr (A. M. Sommer)

MUSS 174  Accompanying IV (Piano)
A must course for piano major students, elective for composition students. The course follows methods designed by Prof. Odette Gartenlaub for the CNMP. Aiming to enhance the keyboard skills along with improvisation, harmonization at the keyboard and sight playing for pianists. Each student accompanies various instrument classes from the Bilkent Music Preparatory Schools with the attendance of the instructor. Credit units: 3 ECTS Credit Units: , Prerequisite: MUSS 173. Aut (A. M. Sommer) Spr (A. M. Sommer)

MUSS 175  Accompanying V (Piano)
A must course for piano major students, elective for composition students. The course follows methods designed by Prof. Odette Gartenlaub for the CNMP. Aiming to enhance the keyboard skills along with improvisation, harmonization at the keyboard and sight playing for pianists. Each student accompanies various instrument classes from the Bilkent Music Preparatory Schools with the attendance of the instructor. Credit units: 3 ECTS Credit Units: , Prerequisite: MUSS 174. Aut (A. M. Sommer) Spr (A. M. Sommer)

MUSS 176  Accompanying VI (Piano)
A must course for piano major students, elective for composition students. The course follows methods designed by Prof. Odette Gartenlaub for the CNMP. Aiming to enhance the keyboard skills along with improvisation, harmonization at the keyboard and sight playing for pianists. Each student accompanies various instrument classes from the Bilkent Music Preparatory Schools with the attendance of the instructor. Credit units: 3 ECTS Credit Units: , Prerequisite: MUSS 175. Aut (A. M. Sommer) Spr (A. M. Sommer)

MUSS 177  Accompanying VII (Piano)
A must course for piano major students, elective for composition students. The course follows methods designed by Prof. Odette Gartenlaub for the CNMP. Aiming to enhance the keyboard skills along with improvisation, harmonization at the keyboard and sight playing for pianists. Each student accompanies various instrument classes from the Bilkent Music Preparatory Schools with the attendance of the instructor. Credit units: 3 ECTS Credit Units: , Prerequisite: MUSS 176. Aut (A. M. Sommer)
MUSS 178 Accompanying VIII (Piano)
A must course for piano major students, elective for composition students. The course follows methods designed by Prof. Odette Gartenlaub for the CNMP. Aiming to enhance the keyboard skills along with improvisation, harmonization at the keyboard and sight playing for pianists. Each student accompanies various instrument classes from the Bilkent Music Preparatory Schools with the attendance of the instructor. **Credit units: 3 ECTS**

MUSS 185 Recital I
A yearly recital project for the Instrument and Singing option students. May be given for spring or fall semesters of the junior undergraduate academic year. **Credit units: None ECTS Credit Units:**.  

MUSS 187 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:**.  

MUSS 201 Composition I
The analysis of composition processes of various composers. Analysis of the musical languages of various composers along with Turkish composers. Composition exercises in the styles of various composers. Composition techniques. Composition practices involving the use of folkloric material. Composition of basic binary and ternary forms. Composition of a set of Preludes. **Credit units: 3 ECTS Credit Units:** 4.  
Aut (Staff) Spr (M. Karabey)

MUSS 202 Composition II
The continuation of further studies with the aim to achieve the artistic-technical goals presented in MUSS 201. Composition of Theme and Variations for solo instruments or mixed chamber music groups. A set of vocal pieces with piano accompaniment. **Credit units: 3 ECTS Credit Units:** 4. **Prerequisite:** MUSS 185.  
Aut (M. Karabey) Spr (B. Hoinic)

MUSS 203 Composition and Instrumentation I
Modern composition techniques from the 19th century onwards. Analysis of the compositional processes and techniques of Turkish Masters. Composition of rondo forms for solo instruments or mixed instruments. Instrumentation of classic to romantic period pieces with particular emphasis on piano sonatas. Transcription of pieces from various styles for double and triple orchestral formations. **Credit units: 4 ECTS Credit Units:** 7. **Prerequisite:** MUSS 202.  
Aut (M. Cetiz, B. Hoinic, M. Karabey)

MUSS 204 Composition and Instrumentation II
The continuation of further studies with the aim to achieve the artistic-technical goals presented in MUSS 203. Composition of a sonata allegro or suite form for solo instrument with accompaniment or mixed chamber music groups. Instrumentation and transcription of post romantic to contemporary pieces for triple symphonic orchestra. **Credit units: 4 ECTS Credit Units:** 7. **Prerequisite:** MUSS 203.

MUSS 205 Composition and Orchestration I
The sonata form. Composition of a sonata allegro form for a chamber music group consisting of either a string quartet, piano quintet, wind quartet-quintet or other combinations of these instruments. The orchestration of this work. **Credit units: 7 ECTS Credit Units:** 10. **Prerequisite:** MUSS 204.

MUSS 206 Composition and Orchestration II
Continuation of the sonata form. Cyclic forms. Completion of the composition chosen in MUSS 205. Composition of a suite for string orchestra. The orchestrations of these works. **Credit units: 7 ECTS Credit Units:** 1. **Prerequisite:** MUSS 205.  
Spr (M. Cetiz, B. Hoinic)

MUSS 207 Composition and Orchestration III
Advanced orchestration skills. The students are also expected to chose and start their graduation composition (described in MUSS 208) and submit the un-orchestrated sample manuscript of this composition to the jury by the end of the semester. **Credit units: 9 ECTS Credit Units:** 16. **Prerequisite:** MUSS 206.  
Aut (M. Cetiz, B. Hoinic) Spr (B. Hoinic)

MUSS 208 Composition and Orchestration IV
The detailed composition and orchestration of the graduation piece upon the approval of the jury. Some recommended forms and genres for graduation pieces are Symphony, Symphonic Poem, Concerto, Suite and Suite Concertant. The graduation piece must be of symphonic scale. **Credit units: 9 ECTS Credit Units:** 18.
MUSS 211 Harmony - Composition I
Credit units: 4 ECTS Credit Units: 5. Aut (Z. Bakihanova)

MUSS 212 Harmony - Composition II

MUSS 213 Harmony - Composition III
Altered subdominant chords. Modulations with these chords. Inversions of the above mentioned chords. The chord of the altered sixth degree. Modulation with this chord. Modulations to parallel keys. Ellipsis. Pedal and Orgelpunkt. Enharmonic Modulation. Analysis of the selected repertoire. Written and simultaneous harmonization and sequencing of exercises with these chords. Credit units: 4 ECTS Credit Units: 7, Prerequisite: MUSS 212. Aut (Z. Bakihanova)

MUSS 214 Harmony - Composition IV

MUSS 221 History of Music - Composition I

MUSS 222 History of Music - Composition II

MUSS 223 History of Music - Composition III

MUSS 224 History of Music - Composition IV

MUSS 225 Form and Analysis I
Comparison of art forms. Definitions of style and genre. Musical language. Micro and macro formal divisions. The basic principles of musical analysis. Theme, Period and variants, Plain binary forms and variants. Plain ternary forms and its variants. Double binary and double ternary forms. Three to five part forms. Complex ternary form and its historic sources along with its use, formation and variants. Complex binary forms, its use,
form and variants. Compositional processes concerning these forms. Various composers' approaches to these forms. Selected pieces to be analyzed according to the repertoire listings of the composition department.

credit units: 2 ects credit units: 3.

muuss 226 form and analysis ii
rondo forms, its use, formation and variants. Rondo based forms. Variation forms and its resources as seen in folk and dance manners. The historic evolution of the variation form, old, classical and free. Sonata forms, its importance and its variants; complete, incomplete, with episode. The function of its parts. The variants of re-expositions, introductions and coda parts and their properties in different styles. Sonata forms in concerto and symphonic genres. Sonata forms as seen in 19th-20th century music. The Rondo Sonata form, its variants and the characteristics of its divisions Compositional processes concerning these forms. Various composers' approaches to these forms. Selected pieces to be analyzed according to the repertoire listings of various departments. credit units: 2 ects credit units: 3.

muuss 227 musical analysis i
extended vocal, instrumental forms. Opera, Oratorio and Cantata genres. Their types and evolution process. The genres and forms influential in the formation of operatic forms. Cyclic forms, the antique suite, the contemporary suite, the cyclic sonata forms and their characteristics. Selected pieces to be analyzed according to the repertoire listings of various departments. credit units: 2 ects credit units: 3. prerequisite: muuss 226. aut (a. baran) spr (staff)

muuss 228 musical analysis ii
the cyclic symphonic genre and its evolution process. Cyclic properties in vocal and other forms. Complex single part forms and its variants. Characteristics of pieces containing sonata-symphonic cyclic forms. Combinations of different formal characteristics within one piece. Selected pieces to be analyzed according to the repertoire listings of various departments. credit units: 2 ects credit units: 4. prerequisite: muuss 227. aut (staff) spr (staff)

muuss 229 form and general music analysis iii
credit units: 2 ects credit units: 3.

muuss 231 ear training - composition i
definition of music. The fundamental properties of sound, elementary acoustics. The structural elements of music and the grammar and literature of music. Music notation: time and pitch, rhythm, meter, tempo, musical time, staff, solfege syllables, accidentals, manuscript writing. Designation of pitch, duration, tempo, expressions and dynamics. Intervals scales and modes. Polyphonic and harmonic approach. Chords. Designation of chords. Written and aural exercises on these subjects. Methods of musical dictation. Homophonic, polyphonic and rhythmic perception. Harmonic and formal perception. Dictation of difficult two period one-part, two-part and three-part 16 measure dictees containing mixed rhythms, syncopation, agogy; Homophonic style all the intervals with diatonic and chromatic modulation to relative keys. Basic reading skills. One part solo solfege. Sol and Fa keys. Introduction to collective solfege. The solo and collective musical reading and simultaneous sight singing of repertoire consisting of these musical criteria. credit units: 3 ects credit units: 3. aut (m. nowotna)

muuss 232 ear training - composition ii
tonality and key feeling. Functions. Expression marks and terminology cont. Style, phrasing and articulation, abbreviations. Basic triads and their inversions. Seventh chords and their inversions. Ninth chords. Modulation. Secondary degrees. Melody writing. Symmetry and balance, metric structure, melodic cadences. Cadences. Introduction to the form in music. Transposition. Written and aural exercises on these subjects. Dictation of two very difficult two period one-part, two-part and three-part 16 measure dictees containing mixed rhythms, syncopation, agogy; Polyphonic style including all the intervals with diatonic and chromatic modulation to relative keys and modulation to remote keys. Moderate reading skills. Self accompanied solfege. Do keys. The solo and collective musical reading and simultaneous sight singing of repertoire consisting of these musical criteria. credit units: 3 ects credit units: 3. prerequisite: muuss 231. aut (m. nowotna) spr (m. nowotna)

muuss 233 ear training - composition 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, agogy; Homophonic style including all the intervals with diatonic and chromatic modulation to relative keys and modulation to remote keys. Intermediate reading skills. Mixed keys. The solo and collective musical reading and simultaneous sight singing of repertoire consisting of these musical criteria. credit units: 3 ects credit units: 3. prerequisite: muuss 232. aut (m. nowotna)

muuss 234 ear training - composition 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-part, two-part, three part and four-part 16 measure dictees containing mixed rhythms, syncopation, agogy; Polyphonic style including all the intervals with diatonic and chromatic modulation to relative keys, modulation to remote keys,
enharmonic modulation. Advanced reading skills. The solo and collective musical reading and simultaneous sight singing of repertoire consisting of these musical criteria. Credit units: 3 ECTS Credit Units: 3, Prerequisite: MUSS 233.

MUSS 235 Score Reading and Playing I
Sight playing four-part chorales by J.S. Bach in four clefs. The methods of transposition using ancient clefs. Transcription of the string quartet score to the piano score. Sight playing classical quartets. Sight playing two part orchestral passages consisting of two different transposed instruments. Transcription of the string orchestra score to the piano score. Sight playing string orchestral passages. Sight playing three or more part orchestral passages consisting of three different transposed instruments. Transcription of the woodwind choir score to the piano score. Selected repertoire to be sight-read, played and transcribed. Credit units: 2 ECTS Credit Units: 3, Prerequisite: MUSS 235. Aut (A. M. Sommer)

MUSS 236 Score Reading and Playing II
Sight playing double orchestra passages. Sight playing orchestral passages consisting of mixed transposed instruments. Transcription of the double orchestra score to the two piano score. Sight playing double orchestra passages. Sight playing orchestral passages consisting of mixed transposed instruments with non-transposing instruments. Transcription of the double orchestra score to the piano score. Sight playing triple orchestra passages. Sight playing orchestral passages consisting of mixed transposed instruments with non-transposing instruments and solo voices. Transcription of the triple orchestra score to the piano score and the two piano score. Selected repertoire to be sight-read, played and transcribed. Credit units: 2 ECTS Credit Units: 3, Prerequisite: MUSS 235. Spr (A. M. Sommer)

MUSS 241 Polyphony I

MUSS 242 Polyphony II
The use of imitation techniques in invention form. Baroque polyphonic styles. Analysis and composition of two part inventions. The polyphonic style of J.S. Bach. Analysis and composition of two part inventions in the style of J.S. Bach. Advanced imitation technique in invention forms. Analysis and composition of up to three part inventions in the style of J.S. Bach. Credit units: 2 ECTS Credit Units: 2, Prerequisite: MUSS 241. Spr (B. Hoinic)

MUSS 243 Fugue I

MUSS 244 Fugue II
Stretto and its techniques. Analysis and composition of fugal stretti. Composition of a complete three-part fugue with a given theme. Composition of a four-part fugue with a given theme. Composition of double fugues in five parts with given or self invented themes. Analysis of contemporary fugal styles of A.A. Saygun, D. Shostakowitch and P. Hindemith. Contrapuntal techniques of the 20th century. Credit units: 3 ECTS Credit Units: 3, Prerequisite: MUSS 243. Spr (B. Hoinic)

MUSS 251 Piano - Composition I
Basic skills of piano playing. Piano as an auxiliary instrument. The basic piano techniques as applied in simple pieces. Selected repertoire listing to be performed progressively throughout the semester. Credit units: 2 ECTS Credit Units: 2, Aut (A. Özuğur) Spr (N. Ethem)

MUSS 252 Piano - Composition II
Further study to enhance the skills gained in MUSS 251 on a new repertoire. Credit units: 2 ECTS Credit Units: 2, Prerequisite: MUSS 251. Aut (N. Ethem) Spr (A.Özuğur)

MUSS 253 Piano - Composition 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: 2, Prerequisite: MUSS 252. Aut (E.Önal, A. Özuğur)

MUSS 254 Piano - Composition IV
Further study to enhance the skills gained in MUSS 253 on a new repertoire. Credit units: 2 ECTS Credit Units: 2, Prerequisite: MUSS 253. Spr (A. Bağırova)
MUSS 255 Piano - Composition V
Self-accompaniment for all the departments. Sight playing reduced orchestral scores. Further progress in technique. Selected repertoire listing to be performed progressively throughout the semester. Credit units: 2 ECTS Credit Units: 2. Prerequisite: MUSS 254. Aut (A. Bağirova)

MUSS 256 Piano - Composition VI
Further study to enhance the skills gained in MUSS 255 on a new repertoire. Credit units: 2 ECTS Credit Units: 2. Prerequisite: MUSS 255. Spr (H. Emrahli, E. Önal, A. Özuğur)

MUSS 257 Piano - Composition VII
Piano as a solo instrument. Pianos as an accompanying instrument. Further improvement in technique. Self-accompaniment Sight playing reductions of orchestral scores. Selected repertoire listing to be performed progressively throughout the semester. Credit units: 2 ECTS Credit Units: 2. Prerequisite: MUSS 256. Aut (Staff)

MUSS 258 Piano - Composition VIII
Further study to enhance the skills gained in MUSS 257 on a new repertoire also including a must piece that is chosen by the jury and submitted to each student two weeks prior to the final piano examination. Credit units: 2 ECTS Credit Units: 2. Prerequisite: MUSS 257. Spr (H. Emrahli, A. Özuğur)

MUSS 261 Knowledge of Instrument I
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. Basic scoring techniques. Basic scoring techniques of the string and woodwind sections. The aim of helping the students to acquire basic scoring techniques. Selected repertoire listing to be analyzed and transcribed. Credit units: 2 ECTS Credit Units: 2. Aut (Staff) Spr (M. Karabey)

MUSS 262 Knowledge of Instrument II
The soloist characteristics of orchestral instruments. Basic scoring of the brass and percussion sections. Detailed historic and technical inquiry into the characteristics of authentic and folkloric instruments. Transcription methods. Analysis of various orchestration styles. Advanced scoring of orchestral sections. Basic scoring of double and triple orchestral formations. Contemporary techniques on instrumentation. Introduction to orchestration. The aim of helping the students to acquire basic scoring techniques. Selected repertoire listing to be analyzed, transcribed and orchestrated according to principles of basic stylistic approaches in orchestration. Credit units: 2 ECTS Credit Units: 2. Prerequisite: MUSS 261. Aut (M. Cetiz, M. Karabey) Spr (B. Hoinic)

MUSS 265 Conducting - Composition I

MUSS 266 Conducting - Composition II

MUSS 267 Conducting - Composition III

MUSS 268 Conducting - Composition IV
MUSS 271  Ear Training - Singing I
Definition of music. The fundamental properties of sound, elementary acoustics. The structural elements of music and the grammar and literature of music. Music notation: time and pitch, rhythm, meter, tempo, musical time, staff, solfege syllables, accidentals, manuscript writing. Designation of pitch, duration, tempo, expressions and dynamics. Intervals scales and modes. Polyphonic and harmonic approach. Chords. Designation of chords. Written and aural exercises on these subjects. Methods of musical dictation. Homophonic, polyphonic and rhythmic perception. Harmonic and formal perception. Dictation of moderate two period one-part, and two-part dictees containing basic rhythms; Homophonic style. The basic intervals with diatonic to relative keys. Basic reading skills. One part solo solfege. Sol and Fa keys. The solo musical reading and sight singing of repertoire consisting of these musical criteria. Credit units: 2 ECTS Credit Units: 2. Aut (M. Nowotna)

MUSS 272  Ear Training - Singing II
Tonality and key feeling. Functions. Expression marks and terminology cont. Style, phrasing and articulation, abbreviations. Basic triads and their inversions. Seventh chords and their inversions. Secondary degrees. Metric structure, melodic cadences. Cadences. Basic transposition principles. Written and aural exercises on these subjects. Dictation of moderate two period one-part, two-part and three-part 16 measure dictees containing moderate rhythms, syncopation, Simple polyphonic style with diatonic modulation to relative keys. Moderate reading skills. Self accompanied solfege. Do keys. The solo and collective musical reading of repertoire consisting of these musical criteria. Credit units: 2 ECTS Credit Units: 2. Prerequisite: MUSS 271. Aut (Staff) Spr (M. Nowotna, N. Skhvitaridze)

MUSS 273  Ear Training - Singing III
Principles of theoretical analysis. Melodic elaboration. Modulation cont. Style and music. Modes (antique, national etc.) Musical media and special designations. Dictation of difficult two period one-part, two-part, three part and four-part 16 measure dictees containing mixed rhythms, syncopation, agogy; Simple polyphonic style including all the intervals with diatonic and simple chromatic modulation to relative keys and simple modulation to remote keys. Intermediate reading skills. The solo and collective musical reading and simultaneous sight singing of repertoire consisting of these musical criteria. Credit units: 2 ECTS Credit Units: 2. Prerequisite: MUSS 272. Aut (N. Skhvitaridze) Spr (M. Nowotna)

MUSS 274  Ear Training - Singing IV
Basic materials of Twentieth century music. Designations. Recapitulation of music theory subjects. Dictation of difficult two period one-part, two-part, three part and four-part 16 measure dictees containing mixed rhythms, syncopation, agogy; Simple polyphonic style including all the intervals with diatonic and simple chromatic modulation to relative keys, simple modulation to remote keys, Intermediate reading skills. The solo and collective musical reading and simultaneous sight singing of repertoire consisting of these musical criteria. Credit units: 2 ECTS Credit Units: 2. Prerequisite: MUSS 273. Spr (L. Alexandrova, N. Skhvitaridze)

MUSS 275  Traditional to Modern Jazz Techniques I
A survey of jazz composition and arranging techniques. Systematic approach to the art of composing in non-classical idioms. Identification of various jazz styles through the study on major artists and recordings. Standard jazz notation. Application of the concepts learned by composing and arranging for small jazz ensembles. Credit units: 2 ECTS Credit Units: 3.

MUSS 276  Traditional to Modern Jazz Techniques II
Further applications towards the musical technical goals presented in MUSS 275. Arranging and composing for large jazz ensembles. Credit units: 3 ECTS Credit Units: 3. Prerequisite: MUSS 275.

MUSS 277  Traditional Turkish Music
Folk art in general. Turkish folk art. Brief historic discussion of Anatolian civilizations. Modes and forms of traditional Turkish music. The historic transformation of these modes. Introduction to analytic analysis methods derived by A.A.Saygun. Analysis of various authentic folk Anatolian song materials collected by A.A.Saygun and B. Bartok. Credit units: 1 ECTS Credit Units: 2.

MUSS 278  Contemporary Turkish Music
Introduction to the historic development of national art in general from the Independence War till today. A brief look in to the Atatürk Revolutions from the artists point of view. Musical development of various national composers. Analysis of the Turkish folkloric material and its transformations in the works of the "Turkish Five" union and other Turkish composers. Analysis of the techniques of form, harmony, composition and orchestration of these composers. Analysis of the stylistic approach of modern Turkish composers towards folkloric material. Introduction to the works composed by various Turkish composers from 1950 onwards. Credit units: 1 ECTS Credit Units: 2. Prerequisite: MUSS 286.
MUSS 288  Music After 1945
This course aims to introduce the forms, styles, compositional techniques and the contributions of the major composers of this era to 20th century music. This course will investigate the music of major composers such as Messiaen, Boulez, Berio, Ligets, Stockhausen, Muraii, Grisey, Madesna, Lutoslawski, Penderecki and Cage. Credit units: 2 ECTS Credit Units: .

MUSS 291  Harmony I

MUSS 292  Harmony II

MUSS 293  Form and General Music Analysis I
Comparison of art forms. Definitions of style and genre. Musical language. Micro and macro formal divisions. The basic principles of musical analysis. Theme, Period and variants. Plain binary forms and variants. Plain ternary forms and its variants. Double binary and double ternary forms. Three to five part forms. Selected pieces to be analyzed according to the repertoire listings of various departments. Credit units: 2 ECTS Credit Units: 4, Prerequisite: MUSS 292. Aut (A. Tagi-Zade)

MUSS 294  Form and General Music Analysis II
Rondo forms, its use, formation and variants. Rondo based forms. Variation forms and its resources as seen in folk and dance manners. The historic evolution of the variation form, old, classical and free. Sonata forms, its importance and its variants; complete, incomplete, with episode. The function of its parts. The variants of re-expositions, introductions and coda parts and their properties in different styles. Sonata forms in concerto and symphonic genres. Sonata forms as seen in 19th-20th century music. The Rondo Sonata form, its variants and the characteristics of its divisions. Selected pieces to be analyzed according to the repertoire listings of various departments. Credit units: 2 ECTS Credit Units: 4, Prerequisite: MUSS 293. Spr (A. Tagi-Zade)

MUSS 295  History of Music I

MUSS 296  History of Music II

MUSS 297  History of Opera I
MUSS 298  History of Opera II

MUSS 301  Singing I
Credit units: 7 ECTS Credit Units: 7. Aut (P.A. Kırgız, I. G. Soykan, G. Şekeramber)

MUSS 302  Singing II
Credit units: 7 ECTS Credit Units: 7, Prerequisite: MUSS 301. Spr (D. Çolakoğlu, G. Şekeramber)

MUSS 303  Singing III
Credit units: 7 ECTS Credit Units: 10, Prerequisite: MUSS 302. Aut (I. G. Soykan, G. Şekeramber) Spr (I. G. Soykan, G. Şekeramber)

MUSS 304  Singing IV
Credit units: 7 ECTS Credit Units: 10, Prerequisite: MUSS 303. Aut (Staff) Spr (P. A. Kırgız)

MUSS 305  Singing V
Credit units: 7 ECTS Credit Units: , Prerequisite: MUSS 304. Aut (P. A. Kırgız)

MUSS 306  Singing VI
Credit units: 7 ECTS Credit Units: , Prerequisite: MUSS 305. Spr (P. A. Kırgız, G. Şekeramber)

MUSS 307  Singing VII
Credit units: 9 ECTS Credit Units: 16, Prerequisite: MUSS 306. Aut (P. A. Kırgız) Spr (P. A. Kırgız)

MUSS 308  Singing VIII
Credit units: 9 ECTS Credit Units: 16, Prerequisite: MUSS 307.

MUSS 311  Chorus I
Score analysis, discussion and study of various composers’ principal choral works. Comparison of formal characteristics, scoring, and compositional practices. The discipline of small and large ensemble choir performance. Selected repertoire listing consisting of a-capella, accompanied, and cantata, oratorio, operatic forms to be performed progressively throughout the semesters. Credit units: 1 ECTS Credit Units: 1. Aut (E. P. Hristova) Spr (E. P. Hristova)

MUSS 312  Chorus II
Selected repertoire listing consisting of a-capella, accompanied, and cantata, oratorio, operatic forms to be performed progressively through weekly rehearsals. Credit units: 1 ECTS Credit Units: 1, Prerequisite: MUSS 311. Aut (E. P. Hristova) Spr (E. P. Hristova)

MUSS 313  Chorus III
Selected repertoire listing consisting of a-capella, accompanied, and cantata, oratorio, operatic forms to be performed progressively through weekly rehearsals. Credit units: 1 ECTS Credit Units: 1, Prerequisite: MUSS 312. Aut (E. P. Hristova) Spr (E. P. Hristova)

MUSS 314  Chorus IV
Selected repertoire listing consisting of a-capella, accompanied, and cantata, oratorio, operatic forms to be performed progressively through weekly rehearsals. Credit units: 1 ECTS Credit Units: 1, Prerequisite: MUSS 313. Aut (E. P. Hristova) Spr (E. P. Hristova)

MUSS 315  Chorus V
Selected repertoire listing consisting of a-capella, accompanied, and cantata, oratorio, operatic forms to be performed progressively through weekly rehearsals. Credit units: 1 ECTS Credit Units: 1, Prerequisite: MUSS 314. Aut (E. P. Hristova) Spr (E. P. Hristova)

MUSS 316  Chorus VI
Selected repertoire listing consisting of a-capella, accompanied, and cantata, oratorio, operatic forms to be performed progressively through weekly rehearsals. Credit units: 1 ECTS Credit Units: 1, Prerequisite: MUSS 315. Spr (E. P. Hristova)

MUSS 317  Chorus VII
Selected repertoire listing consisting of a-capella, accompanied, and cantata, oratorio, operatic forms to be performed progressively through weekly rehearsals. Credit units: 1 ECTS Credit Units: 1, Prerequisite: MUSS 316. Aut (E. P. Hristova) Spr (E. P. Hristova)
MUSS 318  Chorus VIII
Selected repertoire listing consisting of a-capella, accompanied, and cantata, oratorio, operatic forms to be performed progressively through weekly rehearsals. Credit units: 1 ECTS Credit Units: 1, Prerequisite: MUSS 317. Spr (E. P. Hristova)

MUSS 327  Stage Applications VII (Stage)
Credit units: 2 ECTS Credit Units: 4.

MUSS 337  Interpretation of Lied and Oratorio
Credit units: 2 ECTS Credit Units: 5. Aut (I. G. Soykan)

MUSS 341  Italian - Singing I
Credit units: 2 ECTS Credit Units: 1. Aut (Staff) Spr (Staff)

MUSS 342  Italian - Singing II
Credit units: 2 ECTS Credit Units: 1, Prerequisite: MUSS 341. Spr (Staff)

MUSS 343  Italian - Singing III
Credit units: 2 ECTS Credit Units: 2, Prerequisite: MUSS 342. Aut (Staff)

MUSS 344  Italian - Singing IV
Credit units: 2 ECTS Credit Units: 2, Prerequisite: MUSS 343.

MUSS 345  Italian - Singing V
Credit units: 2 ECTS Credit Units: 2, Prerequisite: MUSS 344. Aut (Staff)

MUSS 346  Italian - Singing VI
Credit units: 2 ECTS Credit Units: 2, Prerequisite: MUSS 345. Spr (Staff)

MUSS 351  Piano - Singing I
Credit units: 2 ECTS Credit Units: 2. Aut (A. Bağırova, A. Özügür)

MUSS 352  Piano - Singing II
Credit units: 2 ECTS Credit Units: 2, Prerequisite: MUSS 351. Spr (H. Emrahli, N. Ethem)

MUSS 353  Piano - Singing III
Credit units: 2 ECTS Credit Units: 2, Prerequisite: MUSS 352. Aut (A. Bağırova, H. Emrahli, N. Ethem) Spr (A. Bağırova, H. Emrahli, N. Ethem)

MUSS 354  Piano - Singing IV
Credit units: 2 ECTS Credit Units: 2, Prerequisite: MUSS 353. Aut (H. Emrahli) Spr (H. Emrahli)

MUSS 355  Piano - Singing V
Credit units: 2 ECTS Credit Units: 2, Prerequisite: MUSS 354.

MUSS 356  Piano - Singing VI
Credit units: 2 ECTS Credit Units: 2, Prerequisite: MUSS 355. Spr (N. Ethem)

MUSS 361  German - Singing I
Credit units: 2 ECTS Credit Units: 1.

MUSS 362  German - Singing II
Credit units: 2 ECTS Credit Units: 1, Prerequisite: MUSS 361.

MUSS 385  Recital I
A yearly recital project for the Instrument and Singing option students. May be given for spring or fall semesters of the junior undergraduate academic year. Credit units: None ECTS Credit Units: . Spr (P. A. Kırızg)

MUSS 387  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: , Prerequisite: MUSS 385. Aut (P. A. Kırızg) Spr (P. A. Kırızg)

MUSS 400  Graduation Project
The graduation project of senior undergraduate students. The composition and orchestration of a symphonic work; concert-recital of a concerto and full recital program performance of the whole and parts of an opera and recital program according to various art fields. To be completed in a minimum of 1 and a maximum of 3 semesters. Credit units: None ECTS Credit Units: 16, Prerequisite: MUSS 107 or MUSS 207 or MUSS 307. Aut (P. A. Kırızg, G. Kirti, I. Nikotina, A. Rahmatulla, V. Zverev) Spr (G. Cafer, S. Ganiev, E. Gnezdilova, P. A. Kırızg, A. Sezer)
## CURRICULUM

### FIRST YEAR

#### Autumn Semester

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<th>Course Code</th>
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<td>THEA 101</td>
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<td>THEA 103</td>
<td>Voice and Speech I</td>
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<td>THEA 107</td>
<td>Movement I</td>
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<td>THEA 113</td>
<td>Singing I</td>
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<tr>
<td>THEA 144</td>
<td>Dance I</td>
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<td>GE 100</td>
<td>Orientation</td>
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<td>Ear Training - Singing I</td>
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<td>English for Music and Performing Arts I</td>
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<td>FA 171</td>
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### SECOND YEAR

#### Autumn Semester

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#### Spring Semester

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### THIRD YEAR

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<td>THEA 413</td>
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<td>THEA 414</td>
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### DIRECTING OPTION

### FIRST YEAR

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**SECOND YEAR**

### Autumn Semester Credits / ECTS Credits
- THEA 203: Voice and Speech III .................................. 3 / 2
- THEA 207: Movement III ........................................... 2 / 2
- THEA 219: History of Theatre I .................................. 1 / 3
- DIR 203: Directing III ........................................... 5 / 8
- DIR 205: Art of Acting III ....................................... 3 / 4
- DIR 221: World Literature I (17th-19th Cent.) ................ 1 / 3
- DIR 225: Theory of Drama I ....................................... 1 / 3
- ELS 221: Support English I ...................................... 3 / 3
- HIST 201: History of Turkish Republic I ....................... 2 / 1

### Spring Semester Credits / ECTS Credits
- THEA 204: Voice and Speech IV .................................. 3 / 2
- THEA 208: Movement IV ............................................ 2 / 2
- THEA 220: History of Theatre II ................................ 1 / 3
- DIR 204: Directing IV ............................................ 5 / 8
- DIR 206: Art of Acting IV ....................................... 3 / 4
- DIR 222: World Literature II (20th Cent.) ..................... 1 / 2
- DIR 226: Theory of Drama II .................................... 1 / 3
- DIR 228: Working With Decorator I .............................. 1 / 1
- ELS 222: Support English II .................................... 3 / 3
- HIST 202: History of Turkish Republic II ..................... 2 / 1

**THIRD YEAR**

### Autumn Semester Credits / ECTS Credits
- THEA 303: Voice and Speech V ................................... 2 / 2
- THEA 307: Movement V ............................................ 2 / 2
- THEA 311: Make-up I .............................................. 1 / 2
- THEA 319: History of Theatre III ................................ 1 / 3
- THEA 325: Stage Technique I .................................... 1 / 2
- THEA 327: Dramaturgy III ........................................ 1 / 2
- DIR 303: Directing Practice V .................................. 5 / 8
- DIR 305: Art of Acting V ........................................ 3 / 4
- DIR 327: Working With Decorator II ............................ 1 / 1
- ELS 321: Support English III ................................... 3 / 3

### Spring Semester Credits / ECTS Credits
- THEA 304: Voice and Speech VI .................................. 2 / 2
- THEA 308: Movement VI ............................................ 2 / 2
- THEA 312: Make-up II ............................................. 1 / 1
- THEA 320: History of Theatre IV ................................ 1 / 3
- THEA 326: Stage Technique II ................................... 1 / 2
- THEA 328: Dramaturgy IV ......................................... 1 / 2
- DIR 304: Directing VI ............................................ 5 / 8
- DIR 306: Art of Acting VI ....................................... 3 / 4
- DIR 328: Working with Decorator III ............................ 1 / 1
- ELS 322: Support English IV .................................... 3 / 3
- PHIL 407: Modern Philosophy .................................... 3 / -

**FOURTH YEAR**

### Autumn Semester Credits / ECTS Credits
- DIR 403: Directing VII .......................................... 7 / 16
- DIR 411: Lighting ................................................ 1 / 3
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<td>Aesthetics</td>
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**Spring Semester**

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<td>DIR 412</td>
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<td>DIR 413</td>
<td>Ethics</td>
<td>1 / 4</td>
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<td>DIR 428</td>
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<td>DIR 429</td>
<td>Working with Decorator VI</td>
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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.

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**

- **Kamil Can Akçalı**, Assistant Professor
- **Murat Alkar**, Instructor
- **Meral Aydın**, Instructor
  Ph.D., Middle East technical University, 1984. Statistical mechanics.
- **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 J. Barker**, Associate Professor
  Ph.D., Mathematics, Oxford University, 1992. Finite groups, representation theory, local and clif ford theory, G-algebras, G-posets.
- **Erman Bengu**, Assistant Professor
  Ph.D., Materials Science, Northwestern University, 2000. Neutral and ion-beam deposition system attached to an UHV surface analysis system, the fundamentals of nucleation and growth of BN-nanotubes thin films at molecular levels, ion and electron beam irradiation on BN and growing cubic-BN films, computational method for the analysis of X-ray Reflectivity data.
- **Ceyhun Bulutay**, Assistant Professor
- **Rengül Çetin-Atalay**, Assistant Professor
Salim Çiraci, Professor  

Ömer Dağ, Associate Professor  

Aykutlu Dana, Instructor  

Güneş Davenport, Instructor  
Ph.D., Electronics, Birmingham University, 1982. Underwater acoustics, applied mathematics.

Alexandre Degtiarev, Associate Professor  

Hilmi Volkan Demir, Assistant Professor  

İbrahim Dibağ, Professor  

Recai Ellialtıoğlu, Associate Professor  
Ph.D., Condensed Matter Physics, University of Missouri-Columbia, 1979. Scanning tunneling microscopy, inelastic electron tunneling spectroscopy, surface physics, semiconductor devices, optoelectronics, low dimensional systems.

Atilla Ercelbi, Professor  
Ph.D., Condensed Matter Physics, Middle East Technical University, 1980. Polaron and bipolaron, electron-phonon interactions, excitons, low dimensional systems.

Gülay Ertas, Instructor  
Ph.D., Chemistry, Middle East Technical University, 2003. Surface enhanced Raman Spectroscopy (SERS), magnetic microparticles, evaluation of the SERS substrate, use of synthetic biopolymers for metal extraction.

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 Gontcharov, Assistant Professor  

Oğuz Güseren, Assistant 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.
İhsan Gürsel, Assistant Professor
Ph.D., Biomaterials and Biology, Middle East Technical University, 1995. Innate immunity, immunotherapy, drug delivery, biomaterials, biotechnology.

Metin Gürses, Professor
Ph.D., Physics, Middle East Technical University, 1975. General relativity, string theory, integrable systems, partial differential equations.

Kaan Güven, Instructor
Ph.D., Physics, Bilkent University, 1998. Photonic-bandgap materials.

Dilek Güvenç, Instructor

Tuğrul Hakioğlu, Associate Professor

Fatih Ömer İlday, Assistant Professor

Margarita Kantcheva, Associate Professor

Hakkı Turgay Kaptanoğlu, Visiting Associate 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.

Mehfaret 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, formal concept analysis.

Zeki C. Kuruoğlu, Professor

Franz Lemmermeyer, Visiting Associate Professor

Uğurhan Muğan, Associate Professor
Mehmet Özgür Oktel, Assistant Professor

Ahmet Oral, Associate Professor

Iossif V. Ostrovskii, Professor
Ph.D., Mathematics, Kharkov State University, 1959. The theory of entire and meromorphic functions, analytic problems of probability theory.

Ekmeleddin Özberkay, Professor

Tayfun Özçelik, Professor
M.D., Istanbul University, 1986. Human molecular genetics, genetic counseling, somatic cell genetics, gene mapping, mutation analysis, identification of disease genes, DNA-based diagnostic.

Ümit Özger, Instructor

Mehmet Öztürk, Professor

Aydan 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.

Ramazan Tuğrul Senger, Visiting Assistant Professor

Sinan Sertoğ, Associate Professor
Ph.D., Mathematics, University of British Columbia, 1984. Algebraic geometry.

Alexander Shumovsky, Professor
Ph.D., Condensed Matter Physics, Moscow State University, 1971. Exactly solvable models in statistical mechanics, phase transition and critical phenomena, superfluorescence phenomena, interaction of light with matter.

Sefer Sützer, Professor
Ph.D., Chemistry, University of California, Berkeley, 1976. Electron, ion and photon spectroscopic analyses of gases, solids and surfaces.

Bilal Tanatar, Professor

Uyar H. Tazebay, Assistant Professor
Ph.D., Université de Paris XI, 1998. Hormonal regulation of the Na+/iodide symporter, sodium or proton coupled symporters, amino acid transport and amino acid catabolism in lower eukaryotes.

Okan Tekman, Assistant Professor
Ph.D., Mathematics, University of Minnesota, 1992. Automorphic forms, special values of L-functions.
Dönüş Tuncel, Visiting Assistant Professor

Bülent Unal, Assistant 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.

Tamer Yagci, Assistant Professor
Ph.D., in Tumor Biology and Immunology from Institute of Oncology, Istanbul University, 1993. Tumor immunosurveillance, immunologic tolerance, tumor specific antigens.

M. Cengiz Yakicier, Assistant Professor
Ph.D., Molecular Biology and genetics, Lyon I University. Cancer genetics, molecular genetics of familial cancer, diagnostic genetic testing for familial cancer, gene identification.

Cemal Yalabik, Professor

Ergun Yalcin, Assistant Professor
Ph.D., Mathematics, University of Wisconsin-Madison, 1998. Cohomology of groups, finite group actions on topological spaces, geometric structures associated to groups.

Isik Yulug, Associate Professor

Natalia Zheltukhina, Instructor
Ph.D., Mathematics, Bilkent University, 2002. Analytic properties of entire functions, zero distributions.
DEPARTMENT OF CHEMISTRY


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

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* Depending on the result of the calculus placement exam given at the beginning of the first year, students may take MATH 111 - MATH 112 - MATH 116 in place of MATH 101 - MATH 102.

SECOND YEAR

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#### Spring Semester

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#### Summer Practise

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### FOURTH YEAR

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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.

#### RESTRICTED ELECTIVES

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<td>CHEM 483</td>
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#### 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. The experimental facilities include a Multichannel Analyzer together with α, β and γ counters, Raman, FTIR, UV-Vis-NIR Spectrometer, AAS, GC, GC/MS, ESCA, XRD, POM and Electrochemical instruments.

#### Master of Science in Chemistry

Admission: Applicants are required to have a B.S. degree in Chemistry, Chemical Engineering or a related field. Students with a B.S. degree in other areas of science and engineering may also apply. However such students are first accepted as a special student and only after acquiring the necessary background in Chemistry are admitted to the graduate program. All applicants must be fluent in written and oral English. Evaluation of applicants is based on their LES scores, past academic record, reference letters and the interview at Bilkent University. Applicants who cannot take the LES exam will be evaluated based on their GRE scores. (Also refer to the "Graduate Admissions" section in the introduction of this catalog for the general graduate admission requirements.)
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. The normal duration of M.S. study is 4 semesters. However, this duration may be extended for up to two more semesters subject to the approval of the Graduate Institute.

Doctor of Philosophy in Chemistry

Admission: Applicants must have an M.S. degree in Chemistry or a closely related field and must take the graduate program entrance examination at Bilkent, given at the end of Spring Semester each year. Applicants who cannot take the entrance examination at Bilkent, will be evaluated based on GRE scores. Satisfactory knowledge of English is required. (Also refer to the “Graduate Admissions” section in the introduction of this catalog for the general graduate admission requirements.)

Degree Requirements: Twenty-four credit units of course work beyond the M.S. level or forty-eight credits of course work beyond the B.S. level is required. The Ph.D. candidate is expected to pass an English examination, a qualifying examination and thesis proposal. Preparing and defending a dissertation based on original research is the essence of the program. The normal duration of Ph.D. study is 8 semesters for students with M.S. degree and ten semesters for students with B.S. degree. However, subject to the approval of the Graduate Institute, these durations may be extended for up to two more semesters.

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 equilibrium, ionic equilibrium, chemical thermodynamics, electrochemistry, chemical kinetics. (Laboratory work is obligatory). Credit units: 4 ECTS Credit Units: 6. Aut (M. Kantcheva, U. Salzner)

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; CHEM 102. Spr (M. Kantcheva, U. Salzner)

CHEM 201 Materials Science and Technology

CHEM 211 Analytical Chemistry I
Fundamental principles and theories of analytical chemistry. Qualitative and quantitative analysis by gravimetric, volumetric and electrochemical methods. (Laboratory work is obligatory). Credit units: 4 ECTS Credit Units: 7. Aut (G. Ertas)

CHEM 212 Analytical Chemistry II
Modern instrumental methods of chemical analysis based upon electrochemical and spectroscopic methods. (Laboratory work is obligatory). Credit units: 4 ECTS Credit Units: 7, Prerequisite: CHEM 102 and CHEM 211. Spr (G. Ertas)

CHEM 231 Organic Chemistry I
Basic principles of organic chemistry. A survey of the principal classes of organic compounds. Synthesis and characteristics reactions of various functional groups. (Laboratory work is obligatory) Credit units: 5 ECTS Credit Units: 8. Aut (D. Tuncel)
CHEM 232  Organic Chemistry II
Modern physical organic chemistry with emphasis on mechanistic and spectroscopic methods. (Laboratory work is obligatory.) Credit units: 5 ECTS Credit Units: 8, Prerequisite: CHEM 102 and CHEM 231. Spr (D. Tuncel)

CHEM 233  Principles of Organic Chemistry I
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. Aut (D. Tuncel)

CHEM 234  Principles of Organic Chemistry II
Modern physical organic chemistry with emphasis on mechanistic and spectroscopic methods. Credit units: 3 ECTS Credit Units: 6.

CHEM 323  Physical Chemistry I
Chemical thermodynamics. Solution and phase equilibria. Electrochemistry. Solid and liquid states. (Laboratory work is obligatory.) Credit units: 4 ECTS Credit Units: 7. Aut (Ş. Süzer)

CHEM 324  Physical Chemistry II
Chemical kinetics. Transport phenomena. Surface chemistry. Chemistry of macromolecules. (Laboratory work is obligatory). Credit units: 4 ECTS Credit Units: 7, Prerequisite: CHEM 323. Spr (H. N. Erten)

CHEM 325  Principles of Physical Chemistry I

CHEM 326  Principles of Physical Chemistry II

CHEM 328  Introduction to Quantum Chemistry
Self-consistent field method, atomic structure, Born-Oppenheimer approximation, Molecular orbitals, valence-bond method, hybrid orbitals, correlation diagrams, Hückel Method, semi-empirical methods, electron correlation, configuration interaction. Credit units: 4 ECTS Credit Units: 7, Prerequisite: PHYS 325. Aut (Z. C. Kuruglu) Spr (Ş. Süzer)

CHEM 341  Inorganic Chemistry I
The nature of chemical bond. Shapes of molecules. Acid-Base chemistry. Chemistry in aqueous and nonaqueous solutions. Hydrogen bonding. General properties of the elements in the periodic table. (Laboratory work is obligatory.) Credit units: 4 ECTS Credit Units: 7. Aut (Ö. Dağ)

CHEM 342  Inorganic Chemistry II
Bonding, stereochemistry and spectra of coordination compounds. Electronic, magnetic and optical properties of solids. (Laboratory work is obligatory.) Credit units: 4 ECTS Credit Units: 7, Prerequisite: CHEM 341. Spr (Ö. Dağ)

CHEM 424  Physical Chemistry III
Photochemistry, spectroscopy and introductory statistical thermodynamics. Credit units: 3 ECTS Credit Units: 6. Spr (Z. C. Kuruglu)

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. Spr (U. Salzner)

CHEM 451  Principles of Quantum Chemistry

CHEM 460  Environmental Chemistry
Chemical problems related to environment. Energy balance of earth, ozone in the upper atmosphere, greenhouse effect, micrometeorology. SO₂ and CO₂ cycles, photochemical smog, aerosols, trace elements in the environment, particle size distribution. Credit units: 3 ECTS Credit Units: 6. Aut (H. N. Erten)

CHEM 465  Nuclear Chemistry
CHEM 470  Polymer Chemistry

CHEM 480  Photochemistry
Photoophysical and photochemical processes of polyatomic molecules, excited states, energy transfer, lifetime measurements of excited states, determination of mechanism of photochemical reactions. Credit units: 3 ECTS Credit Units: 6.

CHEM 483  Spectroscopy
Spectroscopic methods of chemical analysis. Optical, magnetic resonance, Laser and electron spectroscopic methods. Spectroscopic characterization of compounds and mixtures by combination techniques. Credit units: 3 ECTS Credit Units: 6.

CHEM 490  Structure and Reactivity of Organic Compounds
Biomolecules, heterocyclic amines, sulfur compounds, neighboring group participation in reactions, polymers, carbones, 2-D NMR, mass spectrometry, lithium enolates, transition metal organometallic compounds, and pericyclic reactions. Credit units: 3 ECTS Credit Units: 6.

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 (S. Süzer)

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 (S. Süzer)

GRADUATE COURSES

CHEM 501  Seminars in Chemistry I
Current topics from literature will be presented and evaluated. Credit units: 2 ECTS Credit Units: 4.

CHEM 502  Seminars in Chemistry II
Current topics from literature will be presented and evaluated. Credit units: 2 ECTS Credit Units: 4.

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.

CHEM 505  Nuclear and Radiochemistry

CHEM 507  Statistical Thermodynamics

CHEM 511  Quantum Chemistry I

CHEM 513  Environmental Radiochemistry

CHEM 515  Molecular Spectroscopy

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.

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.

CHEM 532 Advanced Organic Chemistry II
Physical Organic Chemistry: MO theory, population analysis, frontier orbital theory, pericyclic reactions, transition states, reactive intermediates, understanding reaction mechanisms. Credit units: 3 ECTS Credit Units: 6.

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 compounds, inorganic chains, rings, cages and clusters, catalysis and characterization of catalytic materials. Credit units: 3 ECTS Credit Units: 6. Aut (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 554 Special Topics in Physical Chemistry IV
Credit units: 3 ECTS Credit Units: 6.

CHEM 555 Applied Quantum Chemistry
The hydrogen molecule: valence bond theory, the nature of the chemical bond; Hartree-Fock theory for molecules, basis sets, Koopmans' theorem, population analysis; electron correlation, density functional theory, perturbation theory, configuration interaction, multireference methods, applications. Credit units: 3 ECTS Credit Units: 6. Spr (U. Salzner)

CHEM 561 Special Topics in Inorganic Chemistry I
Credit units: 3 ECTS Credit Units: 6.

CHEM 562 Special Topics in Inorganic Chemistry II
Credit units: 3 ECTS Credit Units: 6.

CHEM 571 Special Topics in Organic Chemistry I
Credit units: 3 ECTS Credit Units: 6. Aut (D. Tuncel)

CHEM 572 Special Topics in Organic Chemistry II
Credit units: 3 ECTS Credit Units: 6.

CHEM 573 Polymer Chemistry I
Basic concepts of polymer science. Condensation, free radical, ionic, and coordination polymerizations. Synthesis, molecular structure, properties and uses of some common commercial polymers. Credit units: 3 ECTS Credit Units: 6.

CHEM 574 Polymer Chemistry II

CHEM 580 Advanced Photochemistry
Introduction to photochemistry, light-matter interactions, basic and advanced experimental techniques, radiative and nonradiative processes, light induced chemistry, electron and proton transfer, organic photochemistry, inorganic photochemistry, photovoltaic chemistry, supramolecular photochemistry, femtochemistry, laser-tissue interactions, photodynamic therapy, fluorescence imaging. Credit units: 3 ECTS Credit Units: 6.
CHEM 581  Special Topics in Analytical Chemistry I  
Credit units: 3 ECTS Credit Units: 6.

CHEM 582  Special Topics in Analytical Chemistry II  
Credit units: 3 ECTS Credit Units: 6.

CHEM 584  Surface Coatings  
Introduction to polymer chemistry; Synthesis and applications of alkyd, polyester, amino, phenolic, polyurethane, epoxy, silicone and acrylic resins; Synthesis and applications of emulsion polymers, water dispersible, reducible and soluble polymers, solvents; pigments and additives. Credit units: 3 ECTS Credit Units: 6.

CHEM 590  Biomolecules and Other Advanced Topics  
Biomolecules, heterocyclic amines, sulfur compounds, neighboring group participation in S_n reactions, polymers, carbones, 2-D NMR, mass spectrometry, lithium enolates, transition metal organometallic compounds, and pericyclic reactions. Credit units: 3 ECTS Credit Units: 6.

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: . Aut ($. Sùzer)

CHEM 592  Graduate Seminar II  
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: . Spr ($. Sùzer)

CHEM 599  Master’s Thesis  
Credit units: None ECTS Credit Units: 24. Aut ($. Sùzer) Spr ($. Sùzer)

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: . Aut ($. Sùzer)

CHEM 692  Advanced Seminar II  
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: . Spr ($. Sùzer)

CHEM 699  Ph.D. Dissertation  
Credit units: None ECTS Credit Units: 24. Aut ($. Sùzer) Spr ($. Sùzer)
The Department of Mathematics offers undergraduate and graduate courses that lead to 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 prepare students for an advanced degree in mathematics to which end it admits a small number of highly qualified and motivated students each year. The program is designed to give the students a good background in all areas of mathematics. It consists of four series of courses in analysis, algebra, geometry and differential equations.

UNDERGRADUATE CURRICULUM

FIRST YEAR

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Spring Semester

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**Spring Semester**

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**Autumn Semester**

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**Spring Semester**

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<td>MATH 431</td>
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**RESTRICTE ELECITVE COURSES**

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<td>Introduction to Statistics</td>
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<td>MATH 262</td>
<td>Statistical Methodology</td>
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<td>MATH 300</td>
<td>A Concise History of Mathematics</td>
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<tr>
<td>MATH 418</td>
<td>Diophantine Approximations</td>
<td>3 / -</td>
</tr>
</tbody>
</table>

*Technical Elective Course* denotes any 300 or higher level mathematics, science or engineering course or with the consent of the advisor.

**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 algebraic number theory, algebraic geometry, algebraic topology, functional analysis, non-linear differential equations and general relativity.

**Master of Science in Mathematics**

**Admission:** Applicants to the program should have a B.S. degree in Mathematics (or in science or engineering, but with sufficient preparation in mathematics) and should be proficient in English. Evaluation of applicants is based on their LES scores, past academic record and the interview at Bilkent University. The evaluation of the applicants who cannot take the LES exam will be based on their GRE scores. (Also refer to the “Graduate Admissions” section in the introduction of this catalog for the general graduate admission requirements.)

**Degree Requirements:** Those admitted to the M.S. program have to complete course work of a minimum 24 credit hours, four courses of which are must courses. They should have minimum cumulative grade point average of 3.00, write and defend a thesis. The normal duration of M.S. study is 4 semesters. However, this duration may be extended for up to two more semesters subject to the approval of the Graduate Institute.
CURRICULUM

Autumn Semester

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

Spring Semester

Credits / ECTS Credits

Restricted Elective(1) ...................................................... 3 / 6
Mathematical Elective(1) .................................................. 3 / 6

Doctor of Philosophy in Mathematics

Admission: Applicants must have an M.S. or B.S. degree in Mathematics (or in relevant areas of science or engineering). Evaluation of applicants is based on their LES scores, past academic record and the interview at Bilkent University. The evaluation of the applicants who cannot take the LES exam will be based on their GRE scores. Satisfactory knowledge of English is required. (Also refer to the “Graduate Admissions” section in the introduction of this catalog for the general graduate admission requirements.)

Degree Requirements: Twenty-four credit units of course work beyond the M.S. level or forty-eight credits of course work beyond the B.S. level is required four courses of which are must courses. The Ph.D. candidate is expected to have minimum cumulative grade point average of 3.00, to pass an English examination, a qualifying examination and thesis proposal. Preparing and defending a dissertation based on original research is the essence of the program. The normal duration of Ph.D. study is 8 semesters for students with M.S. degree and ten semesters for students with B.S. degree. However, subject to the approval of the Graduate Institute, these durations may be extended for up to two more semesters.

CURRICULUM

FIRST YEAR

Autumn Semester

MATH 611 Algebraic Topology I ........................................... 3 / 6
Mathematical Elective(2) ................................................ 6 / 12

Spring Semester

Restricted Elective(3) ...................................................... 9 / 18

SECOND YEAR

Autumn Semester

Mathematical Elective(1) ................................................ 3 / 6

Spring Semester

Mathematical Elective(1) ................................................ 3 / 6

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
Limit, continuity. Derivatives: Differentiation rules, Newton’s method for finding roots, curve sketching, maxima and minima, Mean value theorem, Taylor’s formula, l'Hôpital's rule. Integration: Indefinite and definite integrals,
finding areas, volumes, and arc lengths, surface areas of revolution. Transcendental functions, hyperbolic functions. Integration techniques, improper integrals. **Credit units: 4 ECTS** Credit Units: 7. Aut (O. Tekman) Spr (A. Gontcharov)

**MATH 102 Calculus II**
Sequences and series of numbers, power series, Taylor series. Quadratic curves, polar coordinates. Analytic geometry $\mathbb{R}^3$, in-vector valued functions, TNB frame. Functions of several variables, partial derivatives, free and constrained extrema. Multiple integrals and applications. Line integral, Green's theorem. Surface integral, divergence theorem, Stokes' theorem. **Credit units: 4 ECTS Credit Units: 7. Prerequisite: MATH 101 or MATH 113; MATH 101.** Aut (A. Gontcharov) Spr (O. Tekman)

**MATH 103 Introductory Mathematics**
Real numbers, integral and fractional exponents. Polynomials, factoring polynomials, rational expressions. Linear equations, quadratic equations and quadratic formula. Functions and graphs, graphing polynomials. Inverse functions. Parabola, circle, ellipse, hyperbola. Exponential, functions, logarithmic functions, exponential growth and decay. Elementary plane geometry, trigonometric functions of acute angles, trigonometric functions of arbitrary angles graphs of trigonometric functions. **Credit units: 3 ECTS Credit Units: 5.** Aut (L. J. Barker)

**MATH 105 Introduction to Calculus I**
Cartesian plane, graphs of equations, lines, functions. Limits, continuity. Derivative, differentiation rules, chain rule, velocity and marginal. Sign of the first and second derivatives, curve sketching, extrema and optimization problems. Indefinite integral, definite integral, fundamental theorem of calculus, area between two curves, volumes of solids or revolution. Exponential and logarithmic functions, exponential growth and decay. **Credit units: 4 ECTS** Credit Units: 6. Aut (M. Alkar, G. Davenport) Spr (U. Ozger)

**MATH 106 Introduction to Calculus II**

**MATH 107 Elements of Business Mathematics**
Study of linear equations, quadratic equations. Applications of equations. Polynomial, rational, exponential, logarithmic functions with emphasis on graphing techniques. **Credit units: 3 ECTS Credit Units: 6.** Aut (U. Ozger)

**MATH 108 Elementary Business Statistics**
Organization and description of data. Applications using EXCEL. Basic probability topics. Discrete random variables and their probability distributions. Expected value, variance and standard deviation. The binomial distribution of the mean. Central Limit Theorem and its applications. Correlation, simple linear regression. **Credit units: 3 ECTS Credit Units: 6.** Spr (B. Unal)

**MATH 109 Statistics for Mass Media**
Statistical methods and their applications in social sciences and mass communication. Introduction to distributions, variances and deviations. Sampling concepts and introduction to sampling sizing. **Credit units: 3 ECTS Credit Units: 6.**

**MATH 110 Discrete Mathematics**

**MATH 111 Intermediate Calculus I**

**MATH 112 Intermediate Calculus II**
Lines and planes in space. Cylindrical and spherical coordinates. Credit units: 4 ECTS Credit Units: 7, Prerequisite: MATH 111. Spr (A. Gontcharov, H. T. Kaptangil, Y. Kurtulmaz, A. Pamir)

MATH 113 Single Variable Calculus

MATH 114 Multi Variable Calculus
Sequences and series of real numbers: monotone sequence property, tests for convergence of series. Uniform convergence of sequences and series of functions, Weierstrass M-test, Taylor series. Vector algebra in \( \mathbb{R}^n \). Calculus of vector functions, curves, arc length, curvature. Functions from \( \mathbb{R}^n \) to \( \mathbb{R}^m \), scalar and vector fields, limits and continuity, directional and partial derivatives, gradient of a scalar field, free and constrained extrema. Line integrals, independence of path. Multiple integrals, Green's theorem. Surface integrals, Stokes' theorem, divergence theorem. Credit units: 4 ECTS Credit Units: 7, Prerequisite: MATH 101 or MATH 113. Spr (S. Sertöz)

MATH 115 Intermediate Calculus III

MATH 116 Intermediate Calculus III

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 (B. Ünal) Spr (A. Pamir)

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. Spr (L. J. Barker, A. Kerimov, E. Yalçın)

MATH 202 Complex Analysis
Theory of holomorphic functions of a single variable, complex integration and residue theory, maximum modulus principle. Credit units: 3 ECTS Credit Units: 6, Prerequisite: MATH 114 or MATH 102. Spr (H. T. Kaptangil)
MATH 206  Complex Calculus and Transform Techniques  
Credit units: 3 ECTS  
Credit Units: 6.  
Aut (A. B. Özgüler) Spr (A. B. Özgüler, S. Sertöz)  

MATH 211  Discrete Mathematics and Modern Algebra  
Fundamental principles of counting including rules of sum and product, and permutations and combinations. Fundamentals of logic and integers including mathematical induction, recursive definitions, prime numbers, greatest common divisor, and the fundamental theorem functions including cartesian products and relations, the pigeonhole principle, partial orders, equivalence relations and partitions. Rings and modular arithmetic. Boolean algebra and switching functions. Groups, coding theory, and Polya’s method of enumeration.  
Credit units: 3 ECTS  
Credit Units: 6.  
Aut (A. B. Özgüler) Spr (A. B. Özgüler, S. Sertöz)  

MATH 213  Advanced Calculus I  
Differentiation of functions of several real variables and related topics. Applications to geometry.  
Credit units: 3 ECTS  
Credit Units: 6, Prerequisite: MATH 102 or MATH 114.  
Aut (A. Gheondea)  

MATH 214  Advanced Calculus II  
Introduction to point set topology, continuity, Taylor series and integrals of functions of several real variables. Convergence of series of functions.  
Credit units: 3 ECTS  
Credit Units: 6, Prerequisite: MATH 213.  
Spr (A. Gheondea)  

MATH 215  Mathematical Analysis  
Credit units: 3 ECTS  
Credit Units: 6.  
Aut (A. Gheondea)  

MATH 220  Linear Algebra  
Credit units: 3 ECTS  
Credit Units: 6.  
Aut (F. Lemmermeyer)  

MATH 223  Linear Algebra I  
Vector spaces, linear transformations. Eigenspaces (generalized eigenvalues), determinants, canonical forms, Jordan forms.  
Credit units: 3 ECTS  
Credit Units: 6.  
Aut (A. Klyachko)  

MATH 224  Linear Algebra II  
Inner product spaces, bilinear forms, quadratic forms, adjoint operators, multilinear forms, tensor and exterior products.  
Credit units: 3 ECTS  
Credit Units: 6, Prerequisite: MATH 223.  
Spr (A. Klyachko)  

MATH 225  Linear Algebra and Differential Equations  
Credit units: 4 ECTS  
Credit Units: 6, Prerequisite: MATH 101 or MATH 111; MATH 102 or MATH 112 or MATH 116; MATH 102 or MATH 115 or MATH 116.  

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 (M. Kocatepe, O. Oral) Spr (O. Oral)  

MATH 240  Differential Equations  
Credit units: 3 ECTS  
Credit Units: 6, Prerequisite: MATH 102 or MATH 114.  
Aut (A. Pamir) Spr (A. Degtiarev)
MATH 250 Introduction to Probability
Basic concepts of probability, expectation, and variance, covariance, distribution functions, bivariate marginal and conditional distributions. The Binomial and related distributions, the Poisson Process, the Exponential and Gamma distributions, the Normal distribution, the distributions of sample statistics, the Law of Large Numbers, and the Central Limit Theorem. Credit units: 3 ECTS Credit Units: 5, Prerequisite: MATH 101 or MATH 111; MATH 102 or MATH 114 or MATH 115; MATH 102 or MATH 114; MATH 102 or MATH 115 or MATH 116. Aut (E. Ankan, Ü. Gürler, D. Güvenç, A. Kerimov) Spr (E. Ankan, A. Kerimov)

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: 5, Spr (F. Lemmermeyer)

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: 3 ECTS Credit Units: 5, Aut (D. Güvenç)

MATH 260 Introduction to Statistics
Sampling and descriptive statistics, review of basic discrete and continuous distributions, introduction to estimation theory, methods of maximum likelihood and moments, interval estimation, test of hypotheses, two population problems, simple linear regression and correlation, topics from analysis of variance and design of experiments. Credit units: 3 ECTS Credit Units: 6, Prerequisite: MATH 250. Spr (D. Güvenç)

MATH 262 Statistical Methodology
Organization and description of data. Basic concepts of probability. Binomial, Poisson distributions. The normal distribution, $\chi^2$, 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 (D. Güvenç)

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 (N. Zheltukhina) Spr (BÜnal, N. Zheltukhina)

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: .

MATH 300 A Concise History of Mathematics
The emergence and development of mathematical ideas and techniques during the last few millennia starting with the early Egyptian papyri and ending with the twentieth century mathematics. Tracing the philosophical and cultural setting of mathematics through some concrete problems which include the unit fractions, perfect numbers, Diophantine equations, ruler and compass constructions, polynomial roots, limits, infinity and some unsolved problems of elementary mathematics. Credit units: 3 ECTS Credit Units: 6.

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 (A. Degtiarev)

MATH 313 Real Analysis I
The real number system, least upper bound property. Sets and functions, cardinality. Sequences in metric spaces, completeness, Baire’s theorem. Continuity. Completion of a metric space. Compactness and connectedness. Contraction mapping theorem and its applications. Credit units: 3 ECTS Credit Units: 6, Prerequisite: MATH 213. Aut (I. V. Ostrovs'kii)
MATH 314  Real Analysis II

MATH 318  Fourier Transform and Wavelets

MATH 319  Interpolation and Approximation

MATH 323  Algebra I

MATH 324  Algebra II
Rings and ideals. Euclidean rings. Modules. Fields, extension fields, construction with straightedge and compass. Elements of Galois theory. Credit units: 3 ECTS Credit Units: 5, Prerequisite: MATH 323. Spr (E. Yalcın)

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 (A. Degtiarev)

MATH 346  Differential Geometry II
Intrinsic geometry of surfaces. Riemannian geometry. Geodesics. Gauss-Bonnet theorem. Global structure of surfaces. Credit units: 3 ECTS Credit Units: 5, Prerequisite: MATH 345. Spr (A. Degtiarev)

MATH 354  Algebraic Number Theory
Algebraic numbers, quadratic and cyclotomic fields, factorization, ideals, geometric methods, Dirichlet's units theorem, binary quadratic forms, Fermat's last theorem. Credit units: 3 ECTS Credit Units: 6.

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: 6.

MATH 414  Functional Analysis

MATH 417  Introduction to Number Theory
Congruences and residues; continued fractions; approximation of irrationals; quadratic fields, some Diophantine equations; arithmetical functions; the series of primes. Credit units: 3 ECTS Credit Units: 6.

MATH 431  Introduction to Algebraic Geometry

MATH 443  Partial Differential Equations
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. Aut (A. Gheondea)

MATH 501 Real Analysis I

MATH 502 Real Analysis II

MATH 503 Complex Analysis I

MATH 504 Complex Analysis II

MATH 520 Applied Linear Algebra

MATH 523 Algebra I
Monoids, groups, Sylow theorems, categories, functors, rings, homomorphisms, commutative rings, localization, modules, direct sums of modules, free modules, annihilators, dual spaces, homology sequences of complexes, Euler characteristic, Jorden-Holder theorem, polynomial rings, Noetherian rings, field extensions, Galois theory, extensions of rings, representations of finite groups. Credit units: 3 ECTS Credit Units: 6. Aut (L. J. Barker)

MATH 524 Algebra II
Tensor algebra, modules of finite length, semi local rings, Jacobian radical, Azuyama diagrams, perfect rings, duality theorem, Quasi-Frobenius rings, semi-primitive rings, nil radical, decomposition theorems. Credit units: 3 ECTS Credit Units: 6. Spr (L. J. Barker)

MATH 525 Group Representations

MATH 528 Invariant Theory

MATH 534 Differential Geometry II
Differentiable manifolds, multilinear algebra, Exterior Differential Calculus, Connections, Riemannian Geometry, Lie groups and Moving frames, Complex manifolds, Finsler Geometry. Credit units: 3 ECTS Credit Units: 6.

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 550 Probability and Statistics

MATH 556 Codes on Algebraic Curves

MATH 581 Topics in Nonlinear Partial Differential Equations I
Credit units: 3 ECTS Credit Units: 6. Prerequisite: Consent of the Advisor.

MATH 583 Topics in Mathematical Physics I
Credit units: 3 ECTS Credit Units: 6. Prerequisite: Consent of the Instructor.

MATH 584 Topics in Mathematical Physics II
Credit units: 3 ECTS Credit Units: 6. Prerequisite: Consent of the Instructor.

MATH 585 Topics in Ordinary Differential Equations 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: . Aut (E. Yalçın)

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: . Aut (E. Yalçın)

MATH 599 Master’s Thesis
Credit units: None ECTS Credit Units: 24. Aut (M. Kocatepe)
MATH 603  Value Distribution Theory

MATH 604  Entire Functions

MATH 605  Topics in Functional Analysis I
Credit units: 3  ECTS Credit Units: 6, Prerequisite: Consent of the Instructor. Aut (A. Gheondea)

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 618  Topics in Algebraic Topology II
Credit units: 3  ECTS Credit Units: 6. Aut (E. Yalcın)

MATH 624  Compact Lie Groups

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: .

MATH 633  Algebraic Geometry I
Transcendental theory; Complex algebraic varieties, line bundles and divisors, Riemann surfaces as algebraic curves, Hurwitz's theorem, Riemann-Roch theorem, uniformization, surfaces, Kodaira dimension, main classification theory of surfaces via birational theory, Chern classes, fixed point theorems, residues, spectral sequences. Credit units: 3  ECTS Credit Units: 6.

MATH 650  Topics in Probability Theory
Credit units: 3  ECTS Credit Units: 6, Prerequisite: Consent of the Instructor.

MATH 654  Analytic Number Theory
Integer points, trigonometric sums, infinite products, entire functions, the gamma function, the Riemann zeta-function, zeros of the zeta-function, the prime number theorem, Dirichlet L-functions, primes in arithmetic progressions, the circle method, the Goldbach conjecture, Waring's problem. Credit units: 3  ECTS Credit Units: 6.

MATH 699  Ph.D. Dissertation
Credit units: None  ECTS Credit Units: 24. Aut (M. Kocatepe)
DEPARTMENT OF MOLECULAR BIOLOGY AND GENETICS


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, 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>
</tr>
</thead>
<tbody>
<tr>
<td>MBG 101</td>
<td>Biology I</td>
</tr>
<tr>
<td>CHEM 101</td>
<td>Principles of Chemistry I</td>
</tr>
<tr>
<td>MATH 101*</td>
<td>Calculus I</td>
</tr>
<tr>
<td>GE 100</td>
<td>Orientation</td>
</tr>
<tr>
<td>ENG 101</td>
<td>English and Composition I</td>
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<tr>
<td>TURK 101</td>
<td>Turkish I</td>
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<tr>
<td>Spring Semester</td>
<td>Credits / ECTS Credits</td>
</tr>
<tr>
<td>MBG 102</td>
<td>Biology II</td>
</tr>
<tr>
<td>CHEM 102</td>
<td>Principles of Chemistry II</td>
</tr>
<tr>
<td>MATH 102*</td>
<td>Calculus II</td>
</tr>
<tr>
<td>MATH 112</td>
<td>Intermediate Calculus II</td>
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<tr>
<td>MATH 115</td>
<td>Intermediate Calculus III</td>
</tr>
<tr>
<td>ENG 102</td>
<td>English and Composition II</td>
</tr>
<tr>
<td>TURK 102</td>
<td>Turkish II</td>
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</table>
| * Depending on the result of the calculus placement exam given at the beginning of the first year, students may take MATH 111 - MATH 112 - MATH 116 in place of MATH 101 - MATH 102.

SECOND YEAR

<table>
<thead>
<tr>
<th>Autumn Semester</th>
<th>Credits / ECTS Credits</th>
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</thead>
<tbody>
<tr>
<td>MBG 210</td>
<td>Genetics</td>
</tr>
<tr>
<td>PHYS 101</td>
<td>General Physics I</td>
</tr>
<tr>
<td>CHEM 233</td>
<td>Principles of Organic Chemistry I</td>
</tr>
<tr>
<td>CS 111</td>
<td>Introduction to Computing in Engineering and Science</td>
</tr>
<tr>
<td>HiST 201</td>
<td>History of Turkish Republic I</td>
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<td></td>
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<tr>
<td>Spring Semester</td>
<td>Credits / ECTS Credits</td>
</tr>
<tr>
<td>MBG 223</td>
<td>Molecular Genetics</td>
</tr>
<tr>
<td>PHYS 102</td>
<td>General Physics II</td>
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</table>
### Autumn 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>MBG 301</td>
<td>Molecular Biology of the Cell I</td>
<td>3 / 6</td>
</tr>
<tr>
<td>MBG 311</td>
<td>Biochemistry I</td>
<td>4 / 6</td>
</tr>
<tr>
<td>MBG 324</td>
<td>Molecular Biology of the Gene</td>
<td>4 / 6</td>
</tr>
<tr>
<td>MBG 326</td>
<td>Introduction to Bioinformatics</td>
<td>3 / 6</td>
</tr>
<tr>
<td>HUM 121</td>
<td>The Mediterranean World to 1600</td>
<td>3 / 6</td>
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### Spring Semester

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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>MBG 302</td>
<td>Molecular Biology of the Cell II</td>
<td>4 / 6</td>
</tr>
<tr>
<td>MBG 312</td>
<td>Biochemistry II</td>
<td>3 / 6</td>
</tr>
<tr>
<td>MBG 338</td>
<td>Microbiology</td>
<td>4 / 6</td>
</tr>
<tr>
<td>HUM 122</td>
<td>The Mediterranean World and Beyond, 1600 to the Present</td>
<td>3 / 6</td>
</tr>
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</table>

### Summer 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>MBG 391</td>
<td>Summer Practice</td>
<td>- / -</td>
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</table>

### Third Year

#### Credits / ECTS Credits

<table>
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<tr>
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<th>Credits / ECTS Credits</th>
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<tbody>
<tr>
<td>MBG 416</td>
<td>3 / 6</td>
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<tr>
<td>MBG 491</td>
<td>3 / 6</td>
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<tr>
<td>MBG 418</td>
<td>4 / 6</td>
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<tr>
<td>MBG 492</td>
<td>3 / 6</td>
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#### Restricted Electives

<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>MBG 415</td>
<td>Genetic Engineering and Biotechnology</td>
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<td>MBG 471</td>
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<td>MBG 480</td>
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<td>MBG 485</td>
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<td>MBG 487</td>
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<tr>
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### Fourth Year

#### Credits / ECTS Credits

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<tr>
<td>MBG 324</td>
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<td>HUM 121</td>
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#### Spring Semester

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<td>MBG 416</td>
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<td>MBG 491</td>
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<td>MBG 418</td>
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<tr>
<td>MBG 492</td>
<td>Senior Project II</td>
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</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), molecular cell biology (cell cycle, apoptosis, signal transduction), molecular virology (hepatitis B and hepatitis C viruses), structure-function relationship of proteins and new biotechnologies (recombinant proteins, monoclonal antibodies).
Master of Science in Molecular Biology and Genetics

Admission: Applicants are required to have a B.S. degree in molecular biology and genetics, biology, or a related field. 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. All applicants must be fluent in written and oral English. Evaluation of applicants is based on LES scores, past academic record, reference letters and their performance in the entrance examination given at Bilkent University at the end of Spring Semester each year. Applicants from foreign countries who cannot take LES and entrance exam will be evaluated based on past academic record, reference letters and GRE scores. (Also refer to the “Graduate Admissions” section in the introduction of this catalog for the general graduate admission requirements.)

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. The normal duration of M.S. study is 4 semesters. However, this duration may be extended for up to two more semesters subject to the approval of the Graduate Institute.

Doctor of Philosophy in Molecular Biology and Genetics

Admission: Applicants are required to have a M.S. degree in molecular biology and genetics, biology or a related field. Students with degrees such as M.D. or veterinary M.D. may also apply to the program. All applicants must be fluent in written and oral English. Evaluation of applicants is based on LES scores, past academic record, reference letters and their performance in the entrance examination given at Bilkent University at the end of Spring Semester each year. Applicants from foreign countries who cannot take LES and entrance exam will be evaluated based on past academic record, reference letters and GRE scores. (Also refer to the “Graduate Admissions” section in the introduction of this catalog for the general graduate admission requirements.)

Degree Requirements: Twenty-four credit units of course work beyond the M.S. level or forty-eight credit units of course work beyond the B.S. level is required. The Ph.D. candidate is expected to pass an English examination (KPDS for Turkish citizens, TOEFL for foreign students), a qualifying examination and thesis proposal. Preparing and defending a dissertation based on original research is the essence of the program. The normal duration of Ph.D. study is 8 semesters for students with M.S. degree and 10 semesters for students with B.S. degree. However, subject to the approval of the Graduate Institute, these durations may be extended for up to two more semesters.

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: 3 ECTS Credit Units: 7. Aut (Ö. Kuru)

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 (K. C. Akcali)

MBG 104 Introduction to Molecular Biology
This course is for students from the Chemistry Department. Introduction to cell division and differentiation. Introduction to molecular biology methods, recombinant DNA technology, biotechnology. Credit units: 3 ECTS Credit Units: 6.

MBG 105 Principles of Biology
This course is for students from the Physics, Chemistry and Mathematics Departments. Topics such as molecules of life, organization of the cell, chromosomes and cell division, patterns of inheritance, evolution, recombinant DNA technology, genetic diseases will be covered. Credit units: 3 ECTS Credit Units: 5. Aut (Gürsel)
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 (K. C. Akçalı, T. Öçelik) Spr (T. Öçelik, U. H. Tazebay)

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 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 (U. H. Tazebay)

MBG 231  Techniques Used in Molecular and Cellular Biology
Designed to familiarise students with the basic technics in molecular biology and genetics. Animal models for gene function analysis, PCR based technologies, cloning techniques, high-throughput genome end gene expression analysis methods as well as cell biology techniques will be discussed.  
Credit units: 2 ECTS Credit Units: .

MBG 301  Molecular Biology of the Cell I
Cell signaling, cell cycle regulation, cell functions, adhesion and extracellular matrix, techniques used in cell biology; transfections, immunoblots, immunoprecipitation, immunofluorescence.  
Credit units: 3 ECTS Credit Units: 6. Aut (M. Öztürk)

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 (T. Yącıcı)

MBG 309  Introduction to Biochemistry
This course is for students from the Chemistry Department elective course. The molecules of the life (DNA, RNA, and Proteins), their building blocks and chemical bonds involved in their formation are first reviewed. Then, protein structures and functions are studied more in detail in which complex three-dimensional structure of proteins, enzyme kinetics, motor proteins and protein analysis techniques are emphasized. The fuel of living organisms, carbohydrates and lipids are also examined. In the context of lipids study of cell membrane channel and pumps is included.  
Credit units: 3 ECTS Credit Units: 6. Aut (R. Çetin-Atalay)

MBG 311  Biochemistry I
Introductory biochemistry, bioenergetics, protein structure, protein purification and characterization, enzymatic activity, kinetics, allosteric, vitamins and coenzymes.  
Credit units: 4 ECTS Credit Units: 6. Aut (R. Çetin-Atalay)

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. Aut (R. Çetin-Atalay) Spr (R. Çetin-Atalay)

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.

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. Yüksel)

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) Spr (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.
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: 6.

MBG 415  Genetic Engineering and Biotechnology
Use of higher eukaryotes (plants and animals) in biotechnology, transgenic animals as models of human disease, production of bioactive macromolecules in transgenic animals, production, purification and industrial use of recombinant proteins. Credit units: 3 ECTS Credit Units: 6.

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.

MBG 418  Genomics
Structural organisations of human, D. melanogaster, C. elegans, A. thaliana, and yeast genomes. Gene orthologs, repetitive sequences, evolutionary aspects, functional genomics approaches and methodologies. Credit units: 4 ECTS Credit Units: 6. Spr (M. C. Yakicier)

MBG 451  Concepts in Biology I
This course is for students from Faculty of Education. Molecules of life, central dogma (DNA, RNA, protein) organization of the cell, embryogenesis, genetic diseases, evolution. Credit units: 3 ECTS Credit Units: 6.

MBG 452  Practical Biology
This course is for students from faculty of Education. This is practical course to give a thorough grounding in practical techniques for the biology laboratory, biological experiments, and problem solving in biology. It involves one hour of discussion and four hours of laboratory work per week. Students will also engage in a practical project. Credit units: 3 ECTS Credit Units: 6. Aut (M. C. Yakicier)

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. Aut (T. Yaşıcı)

MBG 471  Membrane Biology

MBG 480  Cell Cycle and Apoptosis
Mechanisms and molecules regulating cell cycle and apoptotic cell death, roles of cell proliferation and apoptosis in the development of multicellular organisms, aberrations of cell cycle and apoptosis regulation in cancer development and degenerative diseases. Credit units: 3 ECTS Credit Units: 6.

MBG 481  Protein Chemistry
Introduction to protein structure and the principles of protein structure with examples of key proteins. Specific examples of proteins to show how they fulfill a wide range of biological functions. In silico approaches to determining and predicting protein structure. Credit units: 3 ECTS Credit Units: 6. Prerequisite: MBG 311, consent of the instructor.

MBG 482  Computational Approaches to Biology
Introduction to computational biology, sequence alignments, Dynamic Programming, Distance matrices, protein domain families, phylogenetics, secondary structure predictions, protein folding and structure prediction. Credit units: 3 ECTS Credit Units: 6.

MBG 483  Developmental Biology

MBG 485  DNA Damage and Repair Mechanism
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.

MBG 487  Special Techniques in Molecular Genetics
The principles of specific methods used in the molecular genetics field will be taught, such as site-directed mutagenesis, phage display technology, cDNA selection, exon trapping, library making and screening. Examples from journal articles will be discussed to enlighten why and where these methods can be used. (No lab session.) Credit units: 3 ECTS Credit Units: 6. Spr (M. C. Yakicier)
MBG 488 Introduction to Human Genetics
Principles of human genetics, patterns of single gene inheritance, human molecular genetics, the human gene map, cytogenetics, the molecular and biochemical basis of genetic disease, genetic counseling, prenatal diagnosis. Credit units: 3 ECTS Credit Units: 6.

MBG 489 Genetics and Biology of Cancer
Genetic changes in cancer, phenotype of cancer cells, oncogenes, tumor suppressor genes, hereditary cancers, cell cycle, apoptosis, senescence, DNA repair and cancer, multicellular interactions in cancer. Credit units: 3 ECTS Credit Units: 6.

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 (T. Yalcin)

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. Spr (T. Ozcelik)

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. Spr (M. Ozturk)

MBG 503 Advanced Molecular Biology

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. (Obligatory for master students) Credit units: 3 ECTS Credit Units: 6. Aut (M. Yakicier)

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 (T. Yalcin)

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 (K. Akcali)

MBG 511 Basic Protocols in Molecular Biology
Basic techniques widely used in molecular biology and genetics will be discussed (Obligatory for master's degree students). Credit units: 3 ECTS Credit Units: 6.

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 (R. Cetin-Atalay)

MBG 514 Stem Cell Biology
The basic features of stem cell biology including concepts like self renewal, biological niches and differentiation. Derivation, manipulation, and differentiation of embryonic, adult, cancer stem cells in both mice and humans. Reproductive and therapeutic cloning. Existing as well as potential clinical applications and ethic considerations of stem cell therapy. Credit units: 3 ECTS Credit Units: 3. Aut (K. Akcali)

MBG 515 Principles of Protein Structure
Principles of Protein Structure course gives an up-to-date account of the principles of protein structure, with examples of key proteins in their biological context. This course first introduces the general principles of protein structure. Next specific examples of proteins will be discussed. Credit units: 3 ECTS Credit Units: 3.

MBG 522 Recent Developments in Cellular Biology
Recent developments in cellular structure and function, intracellular trafficking, cytoskeleton, cell adhesion, extracellular matrix and development. Related selected articles from leading journals will be discussed during the course. Credit units: 3 ECTS Credit Units: 6. Spr (M.Ozturk)
MBG 523  Recent Developments in Molecular Biology
Latest developments and emerging issues in molecular biology including nucleosome and chromatin structure, RNA polymerase II Holoenzyme and its roles, transcription and regulation, chromatin modifying and remodelling complexes, tissue specific gene expression, DNA replication, repair and recombination, cell cycle and regulation. The selected articles from the periodical journals will be chosen to discuss the topics. Credit units: 3 ECTS Credit Units: 6. Spr (I. Yulş)

MBG 524  Seminars in Molecular Biology
Recent advances in the field of Molecular Biology will be discussed. Newly emerging concepts in Molecular Biology will be introduced to and discussed with students. Class discussions will be based on recent articles published in high impact journals in the field. Credit units: None ECTS Credit Units: 6. Spr (R. Çetin-Atalay)

MBG 599  Master’s Thesis
Credit units: None ECTS Credit Units: 24. Aut (Staff) Spr (Staff)

MBG 601  Human Genetics
This course is offered every two years alternating with MBG 603 and MBG 615. Molecular genetics of human diseases, genetic basis of cancer, DNA repair and deficiencies will be among the topics to be discussed. Credit units: 3 ECTS Credit Units: 6.

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. Aut (T. Yağcı)

MBG 603  Molecular Bases of Cancer

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.

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 (T. Yağcı)

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. Aut (T. Yağcı)

MBG 614  Advanced Protocols in Molecular Biology
Techniques widely used in molecular biology and genetics will be discussed. (Obligatory for master's degree students who did not take MBG 511). Credit units: 3 ECTS Credit Units: 6. Spr (Ö. Konu)

MBG 615  Recent Advances in Molecular Biology
Latest developments and emerging issues on molecular biology including cancer, cell-cell interactions, extracellular matrix, signal transduction, chromatin formation. Recent techniques will also be discussed with active student participation. Credit units: 3 ECTS Credit Units: 6.

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 (M. Öztürk)

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.
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. Spr (K. C. Akçalı)

MBG 619 Advanced Membrane Biology
Molecular structures of biological membranes, translocation and topogenesis of proteins in cell membrane with particular emphasis on translocation of solute transporters, structure-function relationships in membrane transporters, regulatory mechanisms controlling transporter expression and function in prokaryotes and in eukaryotes. 
Credit units: 3 ECTS Credit Units: 6.

MBG 620 Cell Proliferation and Death
Molecular mechanisms that govern cell proliferation and programmed cell death, role of both processes in the development and homeostasis of multicellular organisms, aberrations of cell proliferation and apoptosis in diseases including cancer and degenerative diseases. 
Credit units: 3 ECTS Credit Units: 6.

MBG 622 Recent Developments in Immunology
Signalling pathways involved in the ontogenesis of immune effector cells; Activation of T and B lymphocytes; Regulation of adaptive immunity by the innate immune system; Immune evasion of virally infected and tumoral cells; Immunity in diseases; Therapeutic approaches based on the manipulation of immune system. Topics will be discussed through the articles published in the leading journals of the field. 
Credit units: 3 ECTS Credit Units: .

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: . Aut (R. Çetin-Atalay)

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: . Spr (R. Çetin-Atalay)

MBG 699 Ph.D. Dissertation
Credit units: None ECTS Credit Units: 24. Aut (Staff) Spr (Staff)
DEPARTMENT OF PHYSICS


The Department of Physics offers courses that lead to B.S., M.S., and Ph.D. degrees. The department recently established a new 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 STM, PL and Raman Spectroscopy and III-V micro and optoelectronic device technologies. Theoretical research areas include the study of scanning tunneling and force microscopy, surface physics, mesoscopic physics, superlattices, high temperature superconductivity, statistical mechanics, and quantum optics.

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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<td>Mechanics</td>
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<td>PHYS 120</td>
<td>Orientation for Physics Majors</td>
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<td>CHEM 101</td>
<td>Principles of Chemistry I</td>
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<tr>
<td>MATH 113</td>
<td>Single Variable Calculus</td>
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<td>MBG 105</td>
<td>Principles of Biology</td>
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<td>GE 100</td>
<td>Orientation</td>
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<td>ENG 101</td>
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<tr>
<td>PHYS 112</td>
<td>Electricity and Magnetism</td>
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<td>CHEM 102</td>
<td>Principles of Chemistry II</td>
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<td>MATH 114</td>
<td>Multi Variable Calculus</td>
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<td>CS 111</td>
<td>Introduction to Computing in Engineering and Science</td>
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<td>ENG 102</td>
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SECOND YEAR

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<tr>
<td>PHYS 205</td>
<td>Classical Mechanics I</td>
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<tr>
<td>PHYS 226</td>
<td>Quantum Physics</td>
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<td>MATH 220</td>
<td>Linear Algebra</td>
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<td>MATH 240</td>
<td>Differential Equations</td>
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<td>HIST 201</td>
<td>History of Turkish Republic I</td>
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<td>TURK 101</td>
<td>Turkish I</td>
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<tr>
<td>PHYS 206</td>
<td>Classical Mechanics II</td>
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<td>PHYS 230</td>
<td>Quantum Mechanics Laboratory</td>
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<td>PHYS 243</td>
<td>Methods of Mathematical Physics</td>
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<td>MATH 202</td>
<td>Complex Analysis</td>
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<td>History of Turkish Republic II</td>
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#### Autumn Semester

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<td>PHYS 315</td>
<td>Electromagnetic Theory I</td>
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<tr>
<td>PHYS 325</td>
<td>Quantum Mechanics I</td>
<td>3 / 7</td>
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<tr>
<td>PHYS 371</td>
<td>Numerical Methods in Physics</td>
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<tr>
<td>PHYS 473</td>
<td>Methods of Experimental Physics</td>
<td>3 / 6</td>
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<tr>
<td>HUM 121</td>
<td>The Mediterranean World to 1600</td>
<td>3 / 6</td>
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#### Spring Semester

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<tbody>
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<td>PHYS 316</td>
<td>Electromagnetic Theory II</td>
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<td>PHYS 326</td>
<td>Quantum Mechanics II</td>
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<tr>
<td>PHYS 334</td>
<td>Statistical Physics</td>
<td>3 / 6</td>
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<tr>
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<td>The Mediterranean World and Beyond, 1600 to the Present</td>
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### FOURTH YEAR

#### Autumn Semester

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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>PHYS 415</td>
<td>Optics</td>
<td>4 / 6</td>
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<tr>
<td>PHYS 445</td>
<td>Condensed Matter Physics I</td>
<td>3 / 6</td>
</tr>
<tr>
<td>PHYS 491</td>
<td>Senior Project I</td>
<td>3 / 6</td>
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<tr>
<td>Technical Elective</td>
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<td>3 / 6</td>
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<tr>
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<td>3 / 6</td>
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#### Spring Semester

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<tr>
<td>PHYS 446</td>
<td>Condensed Matter Physics II</td>
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<tr>
<td>PHYS 453</td>
<td>Nuclear and Particle Physics</td>
<td>3 / 6</td>
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<td>Technical Elective</td>
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### RESTRICTED ELECTIVES

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<thead>
<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>PHYS 438</td>
<td>Atomic and Molecular Physics</td>
<td>3 / -</td>
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<tr>
<td>PHYS 440</td>
<td>Introduction to Quantum Transport Phenomena in Solids</td>
<td>3 / -</td>
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<tr>
<td>PHYS 442</td>
<td>Introduction to Nonlinear and Quantum Optics</td>
<td>3 / -</td>
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<tr>
<td>PHYS 447</td>
<td>Optical Properties of Solids</td>
<td>3 / -</td>
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<tr>
<td>PHYS 448</td>
<td>Magnetic Properties of Solids</td>
<td>3 / -</td>
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<tr>
<td>PHYS 449</td>
<td>Group Theory</td>
<td>3 / 6</td>
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<tr>
<td>PHYS 451</td>
<td>Introduction to Many Body Theory</td>
<td>3 / 6</td>
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<tr>
<td>PHYS 452</td>
<td>Elementary Excitations in Solids</td>
<td>3 / 6</td>
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<tr>
<td>PHYS 475</td>
<td>Semiconductor Device Physics</td>
<td>3 / -</td>
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<tr>
<td>PHYS 476</td>
<td>Quantum Electronics</td>
<td>3 / 6</td>
</tr>
<tr>
<td>PHYS 480</td>
<td>Field Theory</td>
<td>3 / -</td>
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<td>PHYS 481</td>
<td>Theory of Relativity</td>
<td>3 / -</td>
</tr>
<tr>
<td>PHYS 482</td>
<td>Elementary Particles</td>
<td>3 / -</td>
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### TECHNICAL ELECTIVES

Any 300 or higher level CHEM, CS, EE, IE, MATH, or PHYS course or with the consent of the advisor.

### GRADUATE PROGRAM

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. Presently, research is in progress in the theoretical and experimental study of tunneling, physics of electrons in lower dimensionalities, high temperature superconductivity, statistical mechanics, properties of new materials, fabrication and theoretical analysis of new devices.
Master of Science in Physics

Admission: Applicants are required to have a B.S. degree in Physics or in related fields of science and engineering. Evaluation of applicants is based on their LES scores, past academic record, reference letters and the interview at Bilkent University. Applicants who cannot take the LES examination will be evaluated based on GRE scores. Satisfactory knowledge of English is required. (Also refer to the “Graduate Admissions” section in the introduction of this catalog for the general graduate admission requirements.)

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. The normal duration of M.S. study is 4 semesters. However, this duration may be extended for up to two more semesters subject to the approval of the Graduate Institute.

Doctor of Philosophy in Physics

Admission: Applicants must have an M.S. degree in Physics (or in a relevant field of science or engineering), and must take the graduate program entrance examination at Bilkent, given during Spring semester of each year. Applicants who cannot take the entrance examination at Bilkent, will be evaluated based on GRE scores. Satisfactory knowledge of English is required. (Also refer to the “Graduate Admissions” section in the introduction of this catalog for the general graduate admission requirements.)

Degree Requirements: Twenty-four credit units of course work beyond the M.S. level or forty-eight credits of course work beyond the B.S. level is required. The Ph.D. candidate is expected to pass an English examination, a qualifying examination and thesis proposal. Preparing and defending a dissertation based on original research is the essence of the program. The normal duration of Ph.D. study is 8 semesters for students with M.S. degree and ten semesters for students with B.S. degree. However, subject to the approval of the Graduate Institute, these durations may be extended for up to two more semesters.

COURSE DESCRIPTIONS

UNDERGRADUATE COURSES

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 (M. Aydın, S. Çiraci, A. Dana, H. V. Demir, E. Özbay, R. T. Senger, A. Shumovsky) Spr (M. Aydın, B. Tanatar)

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: PHYS 101 or MATH 101; PHYS 101; MATH 101 or MATH 113 or PHYS 101. Aut (R. Ellialtıoğlu, O. Gülseren) Spr (M. Aydın, A. Aydınlı, A. Dana, H. V. Demir, R. Ellialtıoğlu, M. Gökçay, O. Gülseren, A. Oral, R. T. Senger)

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. Aut (A. Erçekeli)

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: 6. Prerequisite: PHYS 111 and MATH 113 and MATH 101. Spr (A. Erçekeli)

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: . Aut (A. Ercelbi)

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: . Spr (A. Ercelbi)

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 (A. Oral)

PHYS 205 Classical Mechanics I
Elements of Newtonian mechanics; motion of particle; motion of system of particles; motion of rigid body; gravitation; central force problems; special theory of relativity. Credit units: 3 ECTS Credit Units: 6. Aut (T. Hakoğlu)

PHYS 206 Classical Mechanics II
Principles of least action; Lagrange's equations of motion; Hamilton's equations of motion; theory of small vibrations. Credit units: 3 ECTS Credit Units: 6. Prerequisite: PHYS 205. Spr (T. Hakoğlu)

PHYS 226 Quantum Physics
Old quantum theory; introduction to quantum physics; Schrödinger equation, uncertainty principle, correspondence principle; one dimensional problems; angular momentum; hydrogen atom. Credit units: 3 ECTS Credit Units: 6. Aut (R. T. Senger)

PHYS 230 Quantum Mechanics Laboratory
Field emission microscope; emission and absorption spectra; Balmer series of hydrogen; Zeeman effect; optical pumping; Frank-Hertz experiment; determination of Planck's constant; measurement of e/m; radioactive decay; scanning-tunneling microscopy. Credit units: 3 ECTS Credit Units: 6. Spr (K. Gűven)

PHYS 243 Methods of Mathematical Physics
Vector analysis, Fourier analysis; Sturm-Liouville theory; orthogonal polynomials, special functions, complex analysis. Credit units: 4 ECTS Credit Units: 6. Spr (C. Bulutay)

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) Spr (R. T. Senger)

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 327 Quantum Mechanics
Wave function, time-independent Schrödinger equation, Formalism. Quantum Mechanics in three dimensions, identical particles, spin. Credit units: 3 ECTS Credit Units:. Aut (B. Tanatar)

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.
Spr (B. Tanatar)

PHYS 371 Numerical Methods in Physics
Solutions to linear systems of equations; roots of polynomials and other nonlinear functions; statistical applica-
cations; 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. Aut (K. Güven)

PHYS 372 Methods in Computational Physics
Advanced topics in numerical to scientific problems. This course will emphasize student project work. Credit
units: 3 ECTS Credit Units: 6.

PHYS 415 Optics
Free and forced oscillations; traveling waves; principle of superposition; modulations; pulses and wave packets;
electromagnetic waves; reflection, refraction, interference, diffraction and polarization; interferometry; holography.
Credit units: 4 ECTS Credit Units: 6. Aut (A. Aydınlı)

PHYS 420 Nanoscience and Nanotechnology I
General survey of nanoscience and nanotechnology. Atomic scale characterization and processes: Scanning
probe microscopies: STM/AFM and atomic manipulation, Nanofabrication, Carbon Nanotubes, Nanowires,
Transport in nanostructures, Nanoelectronics, Nanomagnetism, Spintronics. Credit units: 3 ECTS Credit Units:

PHYS 421 Nanoscience and Nanotechnology II
Electronic structure of nanostructures, carbon nanotubes, nanowires, Transport in nanostructures, Landau-
Buu¨tiker formalism, nanoelectronics molecular electronics, nanodevices, nanomagnetism, spintronics. Credit
units: 3 ECTS Credit Units: 6. Aut (O. G¨ulseren)

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. ﬂaraci)

PHYS 451 Introduction to Many Body Theory
Interacting systems; Green’s function of the single particle, Schr¨odinger equation; second quantization; quasipar-
ticles; many-body Green’s functions; self-energy and perturbation series; diagrammatic methods; temperature-
dependent Green’s function. Credit units: 3 ECTS Credit Units: 6. Prerequisite: PHYS 326 or consent of the
instructor.

PHYS 452 Elementary Excitations in Solids
Interacting electron gas; Plasmons; electron-hole interaction and excitons; phonons; spin waves and magnons;
interaction processes; transport phenomena; virtual phonons and superconductivity; interaction with photons;
thermal properties. Credit units: 3 ECTS Credit Units: 6.

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. Spr (A. Aydınlı)

PHYS 455 Semiconductor Device Physics
Review of MBE and MOCVD technology. Deposited films. Lithographic processes. Lateral device geometries
and layout. Device and Circuit Fabrication. Characterization. Ohmics and Schottky Barrier Formation. p-n
junction. Credit units: 3 ECTS Credit Units: 6.

PHYS 473 Methods of Experimental Physics
Principles of experimentation; data collection and statistical analysis; chi-square test; least square fitting; lab-
oratory safety, pressurized gases, vacuum physics and technology, cryogenics, temperature measurement,
elements of optical systems, gratings, optical spectroscopy, mass electron, photon and neutron spectroscopies, low level electronic measurements. **Credit units: 3 ECTS Credit Units: 6. Aut (A. Aydınlı)**

**PHYS 476 Quantum Electronics**
Propagation of optical beams; optical resonators; interaction of radiation with matter; laser oscillations; specific laser systems; Q-switching and mode-locking; laser amplifiers; noise and modulation in lasers; non-linear optics. **Credit units: 3 ECTS Credit Units: 6.**

**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 (O. Gülseren)**

**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. Spr (B. Tanatar)**

**GRADUATE COURSES**

**PHYS 520 Nanoscience and Nanotechnology I**
General survey of nanoscience and nanotechnology, Atomic scale characterization and processes: Scanning probe microscopies: STM/AFM and atomic manipulation, Nanofabrication, Carbon Nanotubes, Nanowires, Transport in nanostructures, Nanoelectronics, Nanomagnetism, Spintronics. **Credit units: 3 ECTS Credit Units: .**

**PHYS 521 Nanoscience and Nanotechnology II**
Electronic structure of nanostructures: carbon nanotubes, nanowires, transport in nanostructures: Landauer-Büttiker formalism, nanoelectronics, molecular electronics, nanodevices, nanomagnetism, spintronics. **Credit units: 3 ECTS Credit Units: . Aut (O. Gülseren)**

**PHYS 531 Quantum Communications and Information Processing I**
Quantization of electromagnetic field. Quantum states of light; coherence; squeezing quantum noise. Quantum information and entropy. Classical and quantum measurement of photons; Mandel's formula; teleportation. Entanglement in atomic systems; Bell's inequalities; Zeilinger protocol. Entanglement and quantum cryptography. **Credit units: 3 ECTS Credit Units: 6.**

**PHYS 532 Quantum Communications and Information Processing II**

**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 (M.O. Oktel)**

**PHYS 545 Solid State Theory I**

**PHYS 546 Solid State Theory II**
PHYS 547  Advances in Condensed Matter Physics I
Quantum theory of tunneling. Scanning tunneling microscopy. Scanning tunneling spectroscopy. Development
of a formal theory for scanning tunneling electron microscopy. Tunneling in semiconductor superstructures.
Applications in surface physics. Credit units: 3 ECTS Credit Units: 6.

PHYS 550  Physics of Semiconductor Devices
Overview of Semiconductor Physics. Electron Theory of solids. Semiconductors under equilibrium and non-
equilibrium conditions. Impurity levels, excess carriers, radiative and nonradiative recombinations. Band line-up
and heterojunction energy band diagrams. P-N heterojunction. Graded heterojunctions. Electrical properties of
heterojunctions. New electronic and optoelectronic devices based on semiconductor superlattices. Credit units:
3 ECTS Credit Units: 6.

PHYS 551  Analytical Mechanics
continuous media. Credit units: 3 ECTS Credit Units: 6. Spr (A. Shumovsky)

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.

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. Spr (C. Bulutay)

PHYS 557  Special Topics in Mathematical Physics I
Selected advanced topics of current interest relevant to condensed matter physics will be discussed. Credit
units: 3 ECTS Credit Units: 6.

PHYS 561  Special Topics in Condensed Matter Physics I
Credit units: 3 ECTS Credit Units: 6.

PHYS 562  Special Topics in Condensed Matter Physics II
Credit units: 3 ECTS Credit Units: 6. Spr (S. Çiraci)

PHYS 565  Special Topics in Condensed Matter Physics III
Credit units: 3 ECTS Credit Units: 6.

PHYS 571  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 572  Special Topics in Applied Physics II
Physics of Advanced Electronic Devices: The use and advantages of GaAs and related materials for high
speed and optoelectronic integrated circuits. The use of heterojunctions, quantumwells and structures of small
dimensions. The fundamentals for creating new devices based upon quantum size effects, tunneling and ballistic
electron transport. Credit units: 3 ECTS Credit Units: 6.

PHYS 573  Special Topics in Applied Physics III
Review of electronic band structure of semiconductors, vibrational properties, Electron-phonon interaction, optical
constants and Kramers-Kroning relationships, Lattice and carrier absorption and refection, recombination,
excitonic recombination band-to-band and free-to-bound recombination, donor acceptor pair recombination,
modulation spectroscopies, effects of quantum confinement on electronic and vibrational properties, phonons in
superlattices, folded acoustic modes, confined optical modes. Credit units: 3 ECTS Credit Units: 6.

PHYS 574  Special Topics in Applied Physics IV: Optoelectronics and Integrated Optics
Optoelectronics and Integrated Optics wave equation, total internal reflection, phase shift upon reflection, planer
slab waveguides, dispersion in waveguides, graded index waveguides and dispersion step index circular waveg-
uides and optical fibers, nonlinear effects in waveguides, rectangular waveguides, numerical methods, coupled
mode theory and applications gratings in waveguides, planar lightwave circuits; NxN star coupler, arrayed waveg-
uide grating, A/D multiplexer. Credit units: 3 ECTS Credit Units: 6.

PHYS 580  Experimental Methods in Applied Physics
Introduction to experimental methods. Spectroscopy of semiconductors, photoluminescence, Raman scattering.
Schottky diode fabrication, current and voltage measurements. Computer based instrument control, and data
acquisition. Atomic physics, dye lasers, lasers optogalvanic spectroscopy. Credit units: 3 ECTS Credit Units: 6. Spr (A. Aydhnil)
PHYS 591  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: 1 ECTS Credit Units: .

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: 1 ECTS Credit Units: .  Spr (Ö. Gülseren)

PHYS 599  Master's Thesis
Credit units: None ECTS Credit Units: 24.  Aut (B. Tanatar) Spr (B. Tanatar)

PHYS 661  Special Topics in Solid State Physics
Current topics in Solid State Physics, comprehensive reading, critical evaluation of scientific literature by means of class participation, written reports and seminar presentations.  Credit units: 3 ECTS Credit Units: 6.  Aut (M. Ö. Oktel) Spr (T. Hakoğlu)

PHYS 699  Ph.D. Dissertation
Credit units: None ECTS Credit Units: 24.  Aut (B. Tanatar) Spr (B. Tanatar)
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, Accounting, and Translation and Interpretation. 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. Entry to all three degree programs requires proficiency in both oral and written English and French. Students who need more language work in French in order to attain the required level follow an intensive language study program at the French Preparatory School.

ACADEMIC STAFF

Fahrettin Arslan, Instructor
Ph.D., Hacettepe University, French Language and Literature, 1968.

Aylin Bayakçeken, Assistant Professor
Ph.D., English Language and Literature, Hacettepe University, 1996.

Barbara Blackwell Gülün, Instructor
M.S., English Language Teaching, Middle East Technical University, 1987.

İsmail Boztas, Instructor

Cenk Cangir, Instructor
B.A., French Language and Literature, Hacettepe University, 1989.

İsabelle Cesana, Instructor

Charlotte De Grenier De Latour, Instructor

Alicant Demir, Instructor

Nazmi Demir, Assistant Professor

Akın Erkoç, Instructor
B.A., French Language and Literature, Hacettepe University, 1981.

Herin France, Instructor

Orhan Güvenen, Professor

Tanju İnal, Professor

Semra Kabapalamut, Instructor
M.A., French Language and Literature, Hacettepe University, 1990.

Meral Karagülle, Instructor
M.A., American Literature, Hacettepe University, 1969.

Aysın Karanfilli, Instructor

Mümİzaz Kaya, Instructor
Ph.D., French Language and Literature, Hacettepe University, 1998.
Claudine-Marie Le Hegaret, Instructor
Jean Llanes, Instructor
Erin Maloney, Instructor
Şirin Okayuz Yener, Instructor
Ph.D., Department of Linguistics, Hacettepe University, 2001.
Vincent Orenga, Instructor
Christine Özcan, Instructor
Güclü Özök, Instructor
M.A., French Language and Literature, Hacettepe University, 1995.
Sabit Özönder, Instructor
Valery Paternotte, Instructor
Ph.D., Environmental Management, Universite Libre de Bruxelles, 2002.
Elizabeta Saatçılı, Instructor
Hamit Sunel, Instructor
Ph.D., Education, Hacettepe University, 1968.
Yasemin Tanbi, Instructor
B.A., French-Turkish Translation and Interpretation, Hacettepe University, 2001.
Mine Tüzün, Instructor
B.A., English Language and Literature, Ankara University, 1966.
Aysel Yumuk Şengül, Assistant Professor
Ph.D., Educational Sciences, Middle East Technical University, 1998.

PART-TIME ACADEMIC STAFF

Zeynep Akinci, Institut des Hautes Etudes Europeennes, Strasbourg.
Şenol Babuscu, Ph.D., Management, Hacettepe University, 1997.
Burhan Deveci, B.S., Electrical Engineering, Middle East Technical University, 1980.
Abidin Emre, Ph.D., French Language and Literature, Hacettepe University, 1983.
Özkan Göksu, Ph.D., French Language and Literature, Hacettepe University, 1979.
Adnan Kahilogullari, B.A., Translation, University of Montreal.
Asian Kaya, M.S., Accounting, University of Illinois, 1998.
Dilek Onay, B.A., Public Administration, Middle East Technical University, 1961.
Hakan Özyıldız, B.A., Faculty of Political Sciences of University of Ankara, 1977.
Sevim Sönmez, Ph.D., French Language and Literature, Hacettepe University, 1996.
Erdogan Topuz, Ph.D., Applied Management and Decision Sciences, Walden University, 1999.
ACCOUNTING INFORMATION SYSTEMS

O. Güvenen (Chair), M. Karagülle, M. Kaya, C. Özcan, A. Yumuk Şengül.


UNDERGRADUATE PROGRAM

This program is designed to give a thorough understanding of accounting and information technology (IT) and to develop advanced communication skills in English and French, which are appropriate for accounting and business. The first year is a foundation course in both accounting and languages. Starting in the second year, courses begin to focus more explicitly on accounting related subjects and basic business skills in IT continue to be developed, with a greater focus on business and finance related work in language study.

Accounting Component

The accounting and information technology component of the program constitutes 50% of the degree and seeks to develop competence in finance and accounting within the wider context of business and management. Furthermore, there is a one-month training period in the summer of the second and third year to familiarize students with the working environment in financial institutions and other business organizations.

Language Component

The language courses, which account for 50% of the degree, 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. Most of the practical sessions are function-based and devoted to a given skill (oral work, translation into Turkish) while others are topic-based and focus more on business communications involving case studies that culminate in oral presentations and business reports. Moreover, culture courses are incorporated in the language component in order to give insight into the culture of the countries whose languages are studied and to give an overview of the European Union business world.

CURRICULUM

FIRST YEAR

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<th>Autumn Semester</th>
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<tr>
<td>ACC 151</td>
<td>Principles of Accounting I</td>
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<td>ACC 171</td>
<td>Computer Programming I</td>
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<td>MATH 107</td>
<td>Elements of Business Mathematics</td>
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<td>GE 100</td>
<td>Orientation</td>
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<td>BF 101</td>
<td>English Language Studies I</td>
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<td>ACC 152</td>
<td>Principles of Accounting II</td>
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<tr>
<td>ACC 172</td>
<td>Computer Programming II</td>
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<tr>
<td>MATH 108</td>
<td>Elementary Business Statistics</td>
</tr>
<tr>
<td>BF 102</td>
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<tr>
<td>BF 132</td>
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<td>TURK 102</td>
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SECOND YEAR

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<thead>
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<tbody>
<tr>
<td>ACC 201</td>
<td>French Cultural Issues</td>
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<tr>
<td>BF 161</td>
<td>Economics I</td>
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<td>Course Code</td>
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<tr>
<td>BF 203</td>
<td>Anglo/American Life and Culture II</td>
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<td>BF 205</td>
<td>English-Turkish Translation</td>
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<td>BF 231</td>
<td>French for Business and Professional Use I</td>
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<td>HIST 201</td>
<td>History of Turkish Republic I</td>
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### Autumn Semester

**Credits / ECTS Credits**

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<tbody>
<tr>
<td>ACC 256</td>
<td>Information Systems Development</td>
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<tr>
<td>ACC 292</td>
<td>Summer Period Project</td>
<td>- / -</td>
</tr>
<tr>
<td>BF 162</td>
<td>Economics II</td>
<td>3 / 6</td>
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<tr>
<td>BF 202</td>
<td>English for Business and Professional Use I</td>
<td>3 / 6</td>
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<tr>
<td>BF 206</td>
<td>French-Turkish Translation</td>
<td>3 / 5</td>
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<tr>
<td>BF 236</td>
<td>Commercial French</td>
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<td>HIST 202</td>
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### Spring Semester

**Credits / ECTS Credits**

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<tr>
<td>BF 466</td>
<td>Risk and Insurance</td>
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<tr>
<td>BF 477</td>
<td>Business Law</td>
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<tr>
<td>BF 478</td>
<td>Business Functions and Decision-Making (in French)</td>
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<tr>
<td>TRIN 371</td>
<td>Computer Literacy II</td>
<td>3 / 6</td>
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<tr>
<td>TRIN 473</td>
<td>Turkish Diction</td>
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At least two elective courses should be taken from the elective courses list offered by BF (Banking/Finance) or ACC (Accounting Information Systems) departments. Instruction is in English and French.
COURSE DESCRIPTIONS

ACC 151  Principles of Accounting I
This course introduces basic financial accounting principles. Accounting terminology, financial statements and reporting are covered in the general context of the accounting cycle. Credit units: 3 ECTS Credit Units: 6. Aut (S. Sevin)

ACC 152  Principles of Accounting II
This course covers subjects such as financial assets, inventories, financial statement analysis, liabilities and some principles in Turkish accounting applications. Credit units: 3 ECTS Credit Units: 6, Prerequisite: ACC 151. Spr (N. Elalddi)

ACC 171  Computer Programming I
Introduction to computer applications. Basic usage of system software (Windows) and application software including word processing, spreadsheet, graphic and database. Introduction to accounting related software (Likom, SAP...) Basic programming applications. Credit units: 3 ECTS Credit Units: 5. Aut (H. Hüştünel)

ACC 172  Computer Programming II
This course aims to provide students with advanced skills to use word processing, spreadsheet and database software (Word, Excel, Powerpoint, Access). An introduction to the Internet and the usage of popular accounting software packages. Credit units: 3 ECTS Credit Units: 5, Prerequisite: ACC 171. Spr (H. Hüştünel)

ACC 201  French Cultural Issues
This course provides an introduction to central themes in French culture including French literature, politics and business. Credit units: 3 ECTS Credit Units: 6. Aut (V. Paternotte)

ACC 256  Information Systems Development
Introduction to systems development providing a foundation for systems implementation cycle, systems analysis and program design techniques and project management. Credit units: 3 ECTS Credit Units: 6. Spr (N. Fenmen)

ACC 292  Summer Period Project
One-month training period. (see www.bilkent.edu.tr/~sal) Credit units: None ECTS Credit Units: . Spr (Staff)

ACC 351  Financial Accounting
This course reviews topics such as accounting for investment in corporate securities, income taxes and business decisions, measuring cash flow, analysis and interpretation of financial statements. Credit units: 3 ECTS Credit Units: 6, Prerequisite: ACC 152. Aut (K. Tiritoğlu)

ACC 352  Managerial Accounting
The aim of the course is to introduce students to the main issues in management accounting. A 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. Credit units: 3 ECTS Credit Units: 6, Prerequisite: ACC 351. Spr (K. Tiritoğlu)

ACC 353  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 (Likom, Logo, SAP). Credit units: 3 ECTS Credit Units: 6, Prerequisite: ACC 172. Aut (S. Sevin)

ACC 354  Selected Topics in Information Systems
This course teaches conceptual, analytical and technical skills necessary to work efficiently and productively as an accountant in a computerized business information environment. Focus is on the integrated use of software suite component (MS Word, MS Excel, MS Powerpoint) and other accounting software packages. Credit units: 3 ECTS Credit Units: 6, Prerequisite: ACC 256. Spr (B. Deveci)

ACC 453  Accounting Information Systems
The study of accounting systems, especially computer-oriented systems with an emphasis on the information and control functions of the management decision-making process. Credit units: 3 ECTS Credit Units: 6. Aut (B. Balci)

ACC 454  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 352. Spr (B. Balci)
ACC 455 Computerized Cost Accounting
New applications and principles and principles on cost setting methods, process costing system, cost allocation, cost estimations in industrial companies will be covered in this course. Emphasis will be given to the study of the concepts and methods underlying the development and reporting of manufacturing accounting information. Credit units: 3 ECTS Credit Units: 6, Prerequisite: ACC 152. Aut (S. Sevin)

ACC 456 Advanced Financial and Managerial Accounting Applications
This course provides an in-depth analysis of advanced financial and managerial accounting topics. Topics covered include, financial reporting, business combinations, consolidated financial statements, budgeting costs and production costs in decision making. Credit units: 3 ECTS Credit Units: 6, Prerequisite: ACC 351 and ACC 352. Spr (Ü. Tayyan)

ACC 458 International Accounting Standards
This course provides basic information on the principles of accounting systems used in EU countries with special emphasis on International Accounting standards (IAS). Credit units: 3 ECTS Credit Units: 6. Spr (S. Sevin)

ACC 471 European Union Integration (in French)
European Union integration process, globalization, regionalism, the Customs Union, the structure of the Turkish Economy, Turkish investment policies, sources of finance, a comparative analysis of European Union economies and OECD economies. Credit units: 3 ECTS Credit Units: 6. Aut (O. Güvenen)

ACC 474 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. Spr (O. Güvenen)

ACC 481 Taxation
Introduction to the theory of taxation, income tax, capital gains tax and corporation tax will be covered in this course Credit units: 3 ECTS Credit Units: 6. Aut (T. Bozkurt)

ACC 483 Insurance Systems
Emphasis an principles of insurance, insurance activity and legal aspects of insurance. Credit units: 3 ECTS Credit Units: 6

ACC 484 Legal Applications in Business and Accounting
This course is designed to present legal principles under which business and accounting applications operate. It gives a practical understanding of the legal framework of social business. Also the legal problems arising out of employment, consumer law, renting, owning property, payments are considered. Credit units: 3 ECTS Credit Units: 6. Spr (T. Bozkurt)
BANKING AND FINANCE

N. Demir (Chair), A. Bayrakçeken, E. Maloney, Ş. Okyayuz Yener, V. Orenga, C. Özcan, V. Paternotte, E. Saatçî, M. Tüzünler.


UNDERGRADUATE PROGRAM

This program is designed to give 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 specific finance topics with a greater focus on business and finance related work in language study.

Banking/Finance Component

The banking and finance component of the program accounts for 50% of the degree and seeks to develop competence in financial markets and organizations. This is complemented by the use of computer assisted applications related to banking. Additionally, a two-month training period is 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, which account for 50% of the degree, 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. Furthermore, culture courses are incorporated in the language component to give an insight into the culture of the countries whose languages are studied and to give an overview of the European Union business world.

CURRICULUM

FIRST YEAR

<table>
<thead>
<tr>
<th>Autumn Semester</th>
<th>Credits / ECTS Credits</th>
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<tbody>
<tr>
<td>BF 101 English Language Studies I</td>
<td>4 / 6</td>
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<tr>
<td>BF 103 Anglo/American Life and Culture I</td>
<td>3 / 5</td>
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<tr>
<td>BF 131 French Language Studies I</td>
<td>4 / 6</td>
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<tr>
<td>BF 161 Economics I</td>
<td>3 / 6</td>
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<tr>
<td>MATH 107 Elements of Business Mathematics</td>
<td>3 / 6</td>
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<tr>
<td>GE 100 Orientation</td>
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<td>TURK 101 Turkish I</td>
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<tr>
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<tr>
<td>BF 132 French Language Studies II</td>
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<tr>
<td>BF 134 French Life and Culture I</td>
<td>3 / 5</td>
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<tr>
<td>BF 162 Economics II</td>
<td>3 / 6</td>
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<tr>
<td>MATH 108 Elementary Business Statistics</td>
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## SECOND YEAR

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<tbody>
<tr>
<td>BF 203</td>
<td>Anglo-American Life and Culture II 3 / 5</td>
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<td>BF 205</td>
<td>English-Turkish Translation 3 / 6</td>
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<tr>
<td>BF 231</td>
<td>French for Business and Professional Use I 3 / 6</td>
</tr>
<tr>
<td>BF 251</td>
<td>Principles of Accounting I 3 / 6</td>
</tr>
<tr>
<td>BF 273</td>
<td>Computer Programming and Applications I 3 / 6</td>
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<tr>
<td>HIST 201</td>
<td>History of Turkish Republic I 2 / 1</td>
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<tr>
<td>BF 202</td>
<td>English for Business and Professional Use I 3 / 6</td>
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<tr>
<td>BF 206</td>
<td>French-Turkish Translation 3 / 5</td>
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<tr>
<td>BF 236</td>
<td>Commercial French 3 / 6</td>
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<tr>
<td>BF 252</td>
<td>Principles of Accounting II 3 / 6</td>
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<tr>
<td>BF 274</td>
<td>Computer Programming and Applications II 3 / 6</td>
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<td>History of Turkish Republic II 2 / 1</td>
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## THIRD YEAR

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<td>BF 305</td>
<td>Business French Translation and Interpretation (French-Turkish) 3 / 6</td>
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<td>BF 331</td>
<td>French for Business and Professional Use II 3 / 6</td>
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<tr>
<td>BF 363</td>
<td>Introduction to Banking Law 3 / 6</td>
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<tr>
<td>BF 365</td>
<td>Elements of Money and Banking 3 / 6</td>
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<tr>
<td>BF 302</td>
<td>English for Business and Professional Use III 3 / 6</td>
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<td>BF 306</td>
<td>Business English Translation and Interpretation (English-Turkish) 3 / 6</td>
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<td>BF 332</td>
<td>French for Business and Professional Use III 3 / 6</td>
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<td>BF 362</td>
<td>Banking Operations 3 / 6</td>
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<td>BF 382</td>
<td>Behavioral Science 3 / 6</td>
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<td>BF 390</td>
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## FOURTH YEAR

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<tbody>
<tr>
<td>BF 405</td>
<td>Intercultural Business Communication 3 / 6</td>
</tr>
<tr>
<td>BF 461</td>
<td>Corporate Finance 3 / 6</td>
</tr>
<tr>
<td>BF 463</td>
<td>Monetary and Financial Systems 3 / 6</td>
</tr>
<tr>
<td>BF 483</td>
<td>Customer Services: Marketing and the Competitive Environment 3 / 6</td>
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<tr>
<td>BF 484</td>
<td>Restricted Elective (1) 3 / 6</td>
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<tbody>
<tr>
<td>BF 406</td>
<td>Integrated Marketing Communications (IMC) 3 / 6</td>
</tr>
<tr>
<td>BF 462</td>
<td>Investments 3 / 6</td>
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<tr>
<td>BF 464</td>
<td>International Finance 3 / 6</td>
</tr>
<tr>
<td>BF 476</td>
<td>Computerized Financial Analysis 3 / 6</td>
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<tr>
<td>BF 487</td>
<td>Restricted Elective (1) 3 / 6</td>
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### ELECTIVES

| BF 409          | Communication and Reporting 3 / 6 |
| BF 460          | Government Budget and Public Financing 3 / 6 |
| BF 466          | Risk and Insurance 3 / 6 |
| BF 468          | Finance of International Trade 3 / 6 |
| BF 470          | Political Economy of the European Union 3 / 6 |
| BF 471          | Business Ethics 3 / 6 |
| BF 472          | Business Law 3 / 6 |
| BF 478          | Business Functions and Decision-Making (in French) 3 / 6 |
| MAN 403         | International Business 3 / 6 |
At least two elective courses should be taken from the elective courses list offered by BF (Banking/Finance), ACC (Accounting), ECON (Economics), and MAN (Management) departments.

## COURSE DESCRIPTIONS

**BF 101  English Language Studies I**
Reinforces English vocabulary and analyzes complex structures and patterns of English usage, with advanced listening and reading comprehension. Emphasis will be given to oral and written communication through topics of a general and specialized nature. **Credit units: 4 ECTS Credit Units: 6. Aut (B. Blackwell Gülend, M. Tüzün)***

**BF 102  English Language Studies II**
Develops a high level of competence in speaking, understanding and writing English through study of grammar, text analysis and composition. **Credit units: 4 ECTS Credit Units: 6. Spr (B. Blackwell Gülend, M. Tüzün)***

**BF 103  Anglo/American Life and Culture I**
Studies of contemporary American culture and how contemporary American culture has been shaped by history. Topics include religion, economics, government, politics, ethnicity, race, gender, education, family, and the American "can-do" spirit. **Credit units: 3 ECTS Credit Units: 5. Aut (E. Maloney)***

**BF 131  French Language Studies I**
Review of grammar patterns; expansion of conversational and writing skills and vocabulary through discussion and written exercises based on texts of a general nature; reading and discussion of selected specialized subjects. **Credit units: 4 ECTS Credit Units: 6. Aut (V. Orenga, S. Özönder)***

**BF 132  French Language Studies II**
Development of oral proficiency; discussion and interpretation of topics or problems of current interest in French. Paragraph and theme development leading to expository writing. **Credit units: 4 ECTS Credit Units: 6. Spr (S. Özönder)***

**BF 134  French Life and Culture I**
Studies of contemporary francophone societies from the beginning of the 20th century. Emphasis is on social and cultural aspects studied through the media, radio, TV, magazines and newspapers such as Le Monde, Le Figaro, etc. **Credit units: 3 ECTS Credit Units: 5. Spr (V. Orenga)***

**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 (A. Aygünêş)***

**BF 162  Economics II**

**BF 202  English for Business and Professional Use I**
Clear and effective written and spoken business communication. Letters, reports and other forms such as use of telephone; inquiries, orders, complaints, collections, internal memoranda, report writing and exposition; selection, evaluation and organization of material in clear and accurate language. **Credit units: 3 ECTS Credit Units: 6. Spr (E. Topuz)***
BF 203  Anglo/American Life and Culture II
Studies of contemporary British and American societies with special emphasis on political and literary aspects.
Credit units: 3 ECTS Credit Units: 5. Aut (M. Karagülle, Ş. Okyayuz Yener)

BF 205  English-Turkish Translation
Methods and techniques of translation. Translation from English into Turkish, based on texts of a general nature.
Credit units: 3 ECTS Credit Units: 6. Aut (A. Yumuk Şengül)

BF 206  French-Turkish Translation
Methods and techniques of translation. Translation based on texts of a general nature. Credit units: 3 ECTS
Credit Units: 5. Spr (Z. Akıncı, Ö. Göksu, A. Kahilogulları)

BF 231  French for Business and Professional Use I
Clear and effective written and spoken business communication. Letters, reports and other forms such as
use of telephone. Inquiries, orders, complaints, collections, internal memoranda, report writing and exposition;
selection, evaluation and organization of material in clear and accurate language. Credit units: 3 ECTS Credit Units: 6. Aut (M. Kaya, S. Özönder)

BF 236  Commercial French
The course stresses the acquisition of specialized business and economic vocabulary through the use of current
magazine articles, a workbook and the Internet. The course will include further practice in business correspon-
dence and report writing. Credit units: 3 ECTS Credit Units: 6. Spr (Z. Karaiabrahinğlı, M. Kaya, S. Özönder)

BF 251  Principles of 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, examination of current assets and current
liabilities and inventory policies and procedures for merchandising companies. Credit units: 3 ECTS Credit Units: 6. Aut (A. Kaya)

BF 252  Principles of Accounting II
Second course in accounting which covers topics such as; the control of cash transactions, valuation of invento-
ries, long term assets and depreciation, liabilities of business firms. Credit units: 3 ECTS Credit Units: 6. Spr
(A. Kaya, K. Tiritoğlu)

BF 273  Computer Programming and Applications I
Introduction to computers. Beginning usage of system software (Windows) and application software (word
processing, spreadsheet, presentation, e-mail and the Internet). Beginning usage of a popular accounting
software package. Credit units: 3 ECTS Credit Units: 6. Aut (E. Maloney)

BF 274  Computer Programming and Applications II
Advanced usage of word processing and spreadsheet software, intermediate database software. Continued
usage of popular accounting software packages. Credit units: 3 ECTS Credit Units: 6, Prerequisite: BF 273.
Spr (E. Maloney)

BF 290  Summer Period Project
One-month training period. (see www.bilkent.edu.tr/~sal) Credit units: None ECTS Credit Units: . Spr (Staff)

BF 301  English for Business and Professional Use II
Reading comprehension of business documents: understanding of points of detail, vocabulary, metaphorical
expressions, summary of business documents. Preparation of agendas, minutes and knowledge of meeting
procedure and its terminology. Job applications and resume writing. Practical introduction to business speaking;
development of interviewing skills, conference procedures, organization of meetings. Oral presentation through
case studies. Credit units: 3 ECTS Credit Units: 6, Prerequisite: BF 202. Aut (E. Şaatçi)

BF 302  English for Business and Professional Use III
Simulation of a range of international business cases through which practical, communicative skills will be
stressed such as negotiating skills, public speaking, oral reporting and report writing. Emphasis will be given to
cross-cultural communication. Credit units: 3 ECTS Credit Units: 6, Prerequisite: BF 301. Spr (E. Şaatçi)

BF 305  Business French Translation and Interpretation (French-Turkish)
Written and oral translation of business-related texts and documents from French to Turkish. Credit units: 3
ECTS Credit Units: 6. Aut (Ö. Göksu, A. Kahilogulları, S. Özönder)

BF 306  Business English Translation and Interpretation (English-Turkish)
Written and oral translation of business-related texts and documents from English to Turkish. Credit units: 3
ECTS Credit Units: 6. Spr (İ. Boztas, Ş. Okyayuz Yener, M. Tüzünler)
BF 331  French for Business and Professional Use II
Reading comprehension of business documents: understanding points of detail, vocabulary, metaphorical expressions, summary of business documents. Preparation of agendas, minutes and knowledge of meeting procedure and its terminology. Job applications and resume writing. Practical introduction to business speaking; development of interviewing skills, conference procedures, organization of meetings. Oral presentation through case studies. Credit units: 3 ECTS Credit Units: 6, Prerequisite: BF 231. Aut (Ç. Özcan)

BF 332  French for Business and Professional Use III
Analysis and application of language used in graph analysis. Preparation, production and exposition of a long business report. Individual selection of topic, investigation, writing and submission of a 10-page report. Oral presentation. Credit units: 3 ECTS Credit Units: 6, Prerequisite: BF 331. Spr (Ç. Özcan)

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 and BF 363; BF 363. Spr (Ş. Babuşçu)

BF 363  Introduction to 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. Aut (Ş. Babuşçu)

BF 365  Elements of Money and Banking
Money and the financial system, interest rates and bond prices, term structure of interest rates, central banking, tools of monetary policy, goals of monetary policy, deposit expansion and money supply, commercial banking, bank management and profitability, the regulation of commercial banks, international banking. Credit units: 3 ECTS Credit Units: 6, Prerequisite: BF 252 and BF 162. Aut (N. Demir)

BF 382  Behavioral Science
Individual behavior, interpersonal relationships and intergroup relations in organizational setting; conceptual tools for analyzing and understanding behavior. Principles of supervision, the supervisory environment. Credit units: 3 ECTS Credit Units: 6. Spr (C. Kalyoncu)

BF 390  Summer Period Project
One-month training period. (see www.bilkent.edu.tr/ sal) Credit units: None ECTS Credit Units: . Spr (Staff)

BF 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)

BF 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 (E. Saatçi)

BF 409  Communication and Reporting
An introduction to the principles of communication with special emphasis on individual and team oral presentations in French. The course includes note taking and case studies. Credit units: 3 ECTS Credit Units: 6. Aut (C. Özcan, V. Paternotte)

BF 460  Government Budget and Public Financing
Preparation and implementation of government budget, techniques of budgeting at the macro level, government revenues and expenditures, primary surplus, effects of fiscal policies on macroeconomy. Credit units: 3 ECTS Credit Units: 6. Spr (H. Gül)

BF 461  Corporate Finance
Overview of time value of money: present value, future value, annuities, perpetuities. Business finance with emphasis on investment and financing decisions of firms. Topics include ratio analysis, profit planning, capital structure and working capital management. Credit units: 3 ECTS Credit Units: 6, Prerequisite: BF 252 and BF 365. Aut (Ş. Çilingir, M. Egeli)
BF 462 Investments  
Investments setting, alternative investments, securities markets, efficient capital markets, valuation of bonds and stocks. Credit units: 3 ECTS Credit Units: 6, Prerequisite: BF 461. Spr (Ş. Çilingir, N. Demir)

BF 463 Monetary and Financial Systems  
Overview of financial systems, commercial banks and nonbank financial institutions: thrifts, credit unions, finance companies, insurance companies and pension funds. Money markets, capital markets, valuation of securities, fixed income securities, duration and immunization, financial instruments, inflation and the financial markets, regulation of the financial system. Credit units: 3 ECTS Credit Units: 6, Prerequisite: BF 365. Aut (N. Demir)

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, Prerequisite: BF 162 and BF 463. Spr (Ş. Çilingir)

BF 466 Risk and Insurance  
Emphasis on principles involved in risk. Perspective on insurance activity, basic and legal principles of insurance. Credit units: 3 ECTS Credit Units: 6.

BF 468 Finance of International Trade  
Trade finance; the role of banks as providers of trade finance. Credit units: 3 ECTS Credit Units: 6, Prerequisite: BF 463.

BF 470 Political Economy of the European Union  
EC; political will, objectives, implications, forms of economic integration, the decision making institutions, barriers to integration, freedom of factor movements, agricultural policies, monetary integration, European Monetary System, energy regional and social policy, regulation of transport, industrial policy. Credit units: 3 ECTS Credit Units: 6.

BF 471 Business Ethics  
This course aims at giving the necessary tools to the future businessmen to make sound decisions on ethical issues. The course is designed to raise the level of awareness on ethical issues in business covering areas such as accounting fraud, ethics of the information age and competitive intelligence. Credit units: 3 ECTS Credit Units: 6. Spr (E. Topuz)

BF 472 Business Law  
The objective of this course is to introduce the essential aspects of the foundations of laws, principles of the Turkish administrative system, topics associated with Civil Law, laws on obligations, checks and other promissory notes as well as other financial contracts. Students are exposed to key legal aspects of governing corporations, partnerships and agencies (in Turkish). Credit units: 3 ECTS Credit Units: 6. Spr (G. Özdöbek)

BF 476 Computerized Financial Analysis  
This course aims to develop skills of empirical work for financial markets by applying theories to real life problems using statistical and econometric techniques with computers. It covers financial statement analysis tools, project evaluation, forecasting, risk measurement, bond and stock valuations and technical analysis of foreign exchange and stock exchange markets. Credit units: 3 ECTS Credit Units: 6, Prerequisite: BF 274 and BF 365. Spr (N. Demir)

BF 478 Business Functions and Decision-Making(in French)  
The objective of this course is to provide the fundamental concepts and ideas in order to understand decision. Making within each business function, namely. - Fundamental concepts of feasibility studies and profitability evaluation (production and finance) - Main accounting principles and documents - Marketing policies (promotion and distribution) - Corporate governance and business communication (policies and strategies towards stakeholders) Credit units: 3 ECTS Credit Units: 6.

BF 483 Customer Services: Marketing and the Competitive Environment  
Corporate services, personal services, competitive environment, cost and profitability, bank income and expenditure, interest and non-interest income, contribution to profits of retail banking, basic marketing knowledge: marketing mix applied to financial services, banker and customer interface, the legal position, interpersonal skills (various types of interviews). Credit units: 3 ECTS Credit Units: 6. Aut (Ç. Kalyoncu)
Basic French Section is part of the School of Applied Languages. It aims to provide preparatory programs in French (elementary and intermediate levels) to students who do not meet the French Language requirements necessary for studying in the departments of Banking and Finance, Accounting, and Translation and Interpretation.

The overall objective of the program is to enable students to reach the level required by equipping them with the necessary language skills needed to study in their chosen disciplines.

To achieve this, two level courses are offered: Elementary French and Intermediate French.

**Elementary French**

This course is intended for students with no knowledge of the language. By providing a solid grounding in the basic skills students will be able to progress to higher levels. At this stage, students will start to familiarize themselves with spoken French, gradually moving on to developing speaking, reading and writing skills. A successful completion of the course will enable students to follow the Intermediate French level course.

**Intermediate French**

This course is for students whose French knowledge is beyond the elementary stage. It will continue to reinforce the skills development of the elementary course. However, particular emphasis will be given to speaking and writing. To build on these two skills, language classes will be based on aspects of French contemporary life and society in addition to subjects such as economics and politics.
TRANSLATION AND INTERPRETATION

T. İnal (Chair), F. Arslan, B. Blackwell Gülen, İ. Boztas, S. Özönder, H. Sunel.


UNDERGRADUATE PROGRAM

The objective of the degree program in Translation and Interpretation is to train translators and interpreters in Turkish/English/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 provide 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, note-taking in addition to translation workshops. Elective courses deal with fields such as national government and administration, political, economic, legal, social, cultural life and institution, current affairs, modern literature, European organizations, 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 which should also be presented orally either in English or French. In the fourth year students may follow a more specialized track of study by choosing one of the following: Written Translation or Conference Interpretation. However, access to Conference Interpretation requires the successful completion of a written and oral examination. This examination will be prepared by the school examination committee comprised of at least three members including the director and one instructor teaching the course. For both specializations a project will be undertaken which will require research to be carried out.

CURRICULUM

FIRST YEAR

<table>
<thead>
<tr>
<th>Autumn Semester</th>
<th>Credits / ECTS Credits</th>
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<tbody>
<tr>
<td>TRIN 101 Contrastive Grammar and Lexis (English-Turkish)</td>
<td>3 / 6</td>
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<tr>
<td>TRIN 103 Contrastive Grammar and Lexis (French-Turkish)</td>
<td>3 / 6</td>
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<tr>
<td>TRIN 131 Texts and Composition in English I</td>
<td>3 / 6</td>
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<tr>
<td>TRIN 133 Texts and Composition in French I</td>
<td>3 / 5</td>
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<tr>
<td>TRIN 161 Introduction to Translation</td>
<td>3 / 6</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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<tbody>
<tr>
<td>TRIN 102 Applied Linguistics</td>
<td>3 / 6</td>
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<tr>
<td>TRIN 132 Texts and Composition in English II</td>
<td>3 / 6</td>
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<tr>
<td>TRIN 134 Texts and Composition in French II</td>
<td>3 / 5</td>
</tr>
<tr>
<td>TRIN 166 English-Turkish-French Translation</td>
<td>4 / 6</td>
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<tr>
<td>TRIN 172 Computer Literacy</td>
<td>3 / 6</td>
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SECOND YEAR

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<tr>
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<tbody>
<tr>
<td>TRIN 205 Cultural Contexts I</td>
<td>3 / 6</td>
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<tr>
<td>TRIN 285 Specialized English-Turkish-French Translation I</td>
<td>4 / 6</td>
</tr>
<tr>
<td>TRIN 267 Sight Translation I</td>
<td>3 / 6</td>
</tr>
<tr>
<td>TRIN 271 Business Communications</td>
<td>3 / 5</td>
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<tr>
<td>HIST 201 History of Turkish Republic I</td>
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<tr>
<td>Restricted Elective (1)</td>
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<th>Spring Semester</th>
<th>Credits / ECTS Credits</th>
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<tbody>
<tr>
<td>TRIN 206 Cultural Contexts II</td>
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<tr>
<td>TRIN 234 Documentation and Terminology</td>
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<td>Course Code</td>
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<tr>
<td>TRIN 266</td>
<td>Specialized English-Turkish-French Translation II</td>
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<td>TRIN 268</td>
<td>Sight Translation II</td>
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<td>HIST 202</td>
<td>History of Turkish Republic II</td>
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**THIRD YEAR**

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<tbody>
<tr>
<td>TRIN 335</td>
<td>Note-Taking and Consecutive Interpretation</td>
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<td>TRIN 337</td>
<td>Precis Writing in English-French</td>
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<tr>
<td>TRIN 361</td>
<td>Specialized English-Turkish Translation III</td>
<td>3/6</td>
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<td>TRIN 363</td>
<td>Specialized French-Turkish Translation III</td>
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**Autumn Semester**

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<tbody>
<tr>
<td>TRIN 330</td>
<td>Criticism and French Literature</td>
<td>3/6</td>
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<tr>
<td>TRIN 332</td>
<td>Selected Topics from English Literature</td>
<td>3/6</td>
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<tr>
<td>TRIN 364</td>
<td>Specialized English-Turkish Translation IV</td>
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<td>TRIN 366</td>
<td>Specialized French-Turkish Translation IV</td>
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<tr>
<td>TRIN 390</td>
<td>Summer Practice</td>
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**Spring Semester**

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<tbody>
<tr>
<td>TRIN 462</td>
<td>English-French Translation Workshop II</td>
<td>3/6</td>
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<tr>
<td>TRIN 484</td>
<td>Simultaneous Interpretation II: Fieldwork+Projectwork</td>
<td>6/12</td>
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**FOURTH YEAR (Conference Interpretation Track)**

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<tbody>
<tr>
<td>TRIN 461</td>
<td>English-French Translation Workshop I</td>
<td>3/6</td>
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<tr>
<td>TRIN 473</td>
<td>Turkish Diction</td>
<td>1/2</td>
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<tr>
<td>TRIN 481</td>
<td>Consecutive Interpretation Techniques</td>
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<tr>
<td>TRIN 487</td>
<td>Interpreting for Public Services</td>
<td>3/6</td>
</tr>
<tr>
<td>BF 409</td>
<td>Communication and Reporting</td>
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**Autumn Semester**

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<tbody>
<tr>
<td>TRIN 462</td>
<td>English-French Translation Workshop II</td>
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<tr>
<td>TRIN 485</td>
<td>Translation Workshop English-French-Turkish</td>
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<tr>
<td>BF 409</td>
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**Spring Semester**

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<tbody>
<tr>
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<td>English-French Translation Workshop II</td>
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<tr>
<td>TRIN 486</td>
<td>Specialized Translation Project</td>
<td>6/12</td>
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**FOURTH YEAR (Written Translation)**

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<tbody>
<tr>
<td>TRIN 461</td>
<td>English-French Translation Workshop I</td>
<td>3/6</td>
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<tr>
<td>TRIN 463</td>
<td>Translation Criticism</td>
<td>3/6</td>
</tr>
<tr>
<td>TRIN 473</td>
<td>Turkish Diction</td>
<td>1/2</td>
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<tr>
<td>TRIN 485</td>
<td>Translation Workshop English-French-Turkish</td>
<td>6/10</td>
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<tr>
<td>BF 409</td>
<td>Communication and Reporting</td>
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**Spring Semester**

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<td>Specialized Translation Project</td>
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**ELECTIVES**

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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>TRIN 207</td>
<td>Language of Journalism</td>
<td>3/6</td>
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<tr>
<td>TRIN 301</td>
<td>Analysis of Scientific and Technical Texts</td>
<td>3/6</td>
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<tr>
<td>TRIN 334</td>
<td>Media Studies</td>
<td>3/6</td>
</tr>
<tr>
<td>TRIN 336</td>
<td>Introduction to Simultaneous Interpretation</td>
<td>3/6</td>
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<tr>
<td>TRIN 340</td>
<td>Audiovisual Media Translation I</td>
<td>3/6</td>
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<tr>
<td>TRIN 371</td>
<td>Computer Literacy II</td>
<td>3/6</td>
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<tr>
<td>POLS 102</td>
<td>Introduction to Law</td>
<td>3/6</td>
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<tr>
<td>ACC 471</td>
<td>European Union Integration (in French)</td>
<td>3/6</td>
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<tr>
<td>ACC 474</td>
<td>Management Information Systems (in French)</td>
<td>3/6</td>
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<tr>
<td>BF 161</td>
<td>Economics I</td>
<td>3/6</td>
</tr>
<tr>
<td>BF 411</td>
<td>Critical Approach to French Literature</td>
<td>3/6</td>
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<tr>
<td>BF 470</td>
<td>Political Economy of the European Union</td>
<td>3/6</td>
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</table>
At least two elective courses should be taken from the elective courses list above.

COURSE DESCRIPTIONS

TRIN 101  Contrastive Grammar and Lexis (English-Turkish)
Comparative study of the principal grammatical structures of English and Turkish, together with a study of lexical items. Presentation of basic concepts necessary to the study of words: meaning, evolution, variants and formation. Credit units: 3 ECTS Credit Units: 6. Aut (A. Bayrakçeken)

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 (H. Sunel)

TRIN 103  Contrastive Grammar and Lexis (French-Turkish)
Comparative study of the principal grammatical structures of French and Turkish, together with a study of lexical items. Presentation of basic concepts necessary to the study of words: meaning, evolution, variants and formation. Credit units: 3 ECTS Credit Units: 6. Aut (H. Sunel)

TRIN 131  Texts and Composition in English I
This course uses texts of a general nature as a basis on which to develop the students' oral and written command of English. 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: 6. Aut (A. Bayrakçeken, A. Yumuk Şengül)

TRIN 132  Texts and Composition in English II
This course uses texts of a general nature as a basis on which to develop the students' oral and written command of English. 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 (M. Karagülle)

TRIN 133  Texts and Composition in French I
This course uses texts of a general nature as a basis on which to develop the students' oral and written command of 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. De Grenier De Latour, V. Paternotte)

TRIN 134  Texts and Composition in French II
This course uses texts of a general nature as a basis on which to develop the students' oral and written command of 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. De Grenier De Latour)

TRIN 161  Introduction to Translation
This course consists of an introduction to the theory and methods of translation. It includes 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 (F. Arslan, Boztas, M. Tüzün)</p>

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, together with a study of language registers. It also includes the use of recorded broadcasts and radio reports as spoken source from which written translation is performed. Credit units: 4 ECTS Credit Units: 6. Spr (F. Arslan, I. Boztas)

TRIN 172  Computer Literacy
Beginning usage of personal computers, with emphasis placed on basic computer terms and understanding how computers work. Students learn in laboratories introductory operating systems (primarily Windows), word processing, e-mail, Internet, and presentation software. Credit units: 3 ECTS Credit Units: 6. Spr (E. Maloney)
TRIN 205 Cultural Contexts 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 (B. Blackwell Gülen, C. De Grenier De Latour)

TRIN 206 Cultural Contexts II
The study of British, American, and French societies through oral discussions and presentations with emphasis on political and economic aspects. Credit units: 3 ECTS Credit Units: 6. Spr (Ş. Okyayuz Yener, V. Orenga)

TRIN 207 Language of Journalism
An analytical approach to the study of journalistic texts (French or English and Turkish). Emphasis is placed on journalistic style and register. Credit units: 3 ECTS Credit Units: 6. Aut (N. Bernard-Türkmen)

TRIN 234 Documentation and Terminology
This course is a study of methods of documentation of research. Introduction to terminology and neologisms. Credit units: 3 ECTS Credit Units: 5. Spr (Ş. Okyayuz Yener, H. Sunel)

TRIN 265 Specialized English-Turkish-French Translation I
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 (S. Sönmez, A. Yumuk Şengül)

TRIN 266 Specialized English-Turkish-French Translation II
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. Spr (S. Sönmez, H. Sunel, M. Tütüner)

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 (M. Karagülle, M. Kaya)

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. Prerequisite: TRIN 267. Spr (M. Karagülle, M. Kaya)

TRIN 271 Business Communications
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 (Z. Karaibrahimgül, E. Topuz)

TRIN 301 Analysis of Scientific and Technical Texts
This course emphasizes the form and structure of scientific and technical texts. It includes language functions, modes of expression and some practice in writing technical reports. Credit units: 3 ECTS Credit Units: 6. Aut (A. Bayrakçeken)

TRIN 330 Criticism and French Literature
Study of 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, economical, political). In addition a study of 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)

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, technologies, industries, institutions, independents 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 (N. Bernard-Türkmen)
TRIN 335  Note-Taking and Consecutive Interpretation
This course aims at combining oral comprehension with the ability to reproduce the main lines of a speech and to note then 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 (F. Arslan, Tınal, M. Karagülle, M. Kaya, Ş. Okyayuz Yener)

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 (F. Arslan, Ş. Okyayuz Yener)

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 (Ş. Okyayuz Yener, C. Özcan)

TRIN 340  Audiovisual Media Translation I
This course aims to introduce the students to the knowledge and skills required for producing a translated version of an audiovisual product. Besides be coming 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 various constraints on the practices of dubbing and subtitling, including linguistic and cultural problems specific to audiovisual translation. Credit units: 3 ECTS Credit Units: 6. Spr (B. Blackwell Gülen)

TRIN 361  Specialized English-Turkish Translation III
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 (M. Tüzününer)

TRIN 363  Specialized French-Turkish Translation III
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 (F. Arslan, H. Sunel)

TRIN 364  Specialized English-Turkish Translation IV
This course consists of written and oral translation from English into Turkish. The course includes documentary and terminological research and emphasizes style and language registers. Credit units: 3 ECTS Credit Units: 6. Spr (A. Bayraçeken)

TRIN 366  Specialized French-Turkish Translation IV
This course consists of written and oral translation from French into Turkish. The course includes documentary and terminological research and emphasizes style and language registers. Credit units: 3 ECTS Credit Units: 6. Spr (A. Emre)

TRIN 371  Computer Literacy II
Intermediate use of personal computers, including intermediate operating systems (Windows and some Unix), intermediate word processing, introductory spreadsheet, how to build a web page, and basic machine translation. Credit units: 3 ECTS Credit Units: 6. Aut (E. Maloney)

TRIN 461  English-French Translation Workshop I
Conducted in the computer lab, this workshop progressively leads the student to develop French-English, English-French translation skills through intensive lab work on translation assignments and individual and group projects involving comparative analysis of literary works and the translation of films for subtitling and dubbing purposes. Credit units: 3 ECTS Credit Units: 6. Aut (B. Blackwell Gülen)

TRIN 462  English-French Translation Workshop II
Conducted in the computer lab, this workshop further develops the students English-French, French-English translation skills through intensive lab work on translation assignments and individual and group projects involving translation of non-governmental, non-profit organization web sites based on the United Nations Global Issues and the Declaration of Human Rights. Students will also write original publishable articles in French and English about projects done during the course in order to create their own original French-English translation journals. Credit units: 3 ECTS Credit Units: 6. Spr (B. Blackwell Gülen)

TRIN 463  Translation Criticism
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 Interpretation Techniques
This course provides further practice in the techniques of consecutive interpretation. Emphasis on bilingual practical applications. Prerequisite: TRIN 335. Credit units: 6 ECTS Credit Units: 10.

TRIN 483  Simultaneous Interpretation I
This course emphasizes the techniques and practice of simultaneous interpretation in conference situations. Credit units: 6 ECTS Credit Units: 8.

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 (F. Arslan, D. Önay)

TRIN 485  Translation Workshop English-French-Turkish
This course consists of translation from English into Turkish, French into Turkish on topics of current interest. Credit units: 6 ECTS Credit Units: 10. Aut (İ. Boztas, T. İnal, H. Sunel)

TRIN 486  Specialized Translation Project
Students will work independently under the supervision of a staff member in a technical field selected by themselves, reading and translating from English into Turkish and French into Turkish. Credit units: 6 ECTS Credit Units: 12. Spr (İ. Boztas)

TRIN 487  Interpreting for Public Services
This course provides an initial introduction to the context of public service interpreting and stresses interpreting for the courts, the police and the immigration services. Students will be introduced to the techniques of liaison and whisper interpretation and will reinforce the technique of consecutive interpretation. These techniques will be practiced through simulations of relevant interpreting situations. Credit units: 3 ECTS Credit Units: 6.
SCHOOL OF APPLIED TECHNOLOGY AND MANAGEMENT

Kamer Rodoplu, Director
Tekin Ertan, M.B.A., Asst. Director
Engin Türel, B.A., Asst. Director

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 "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 rapid 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 Tourism and Hotel Management Department (THM) aims to prepare students for managerial and supervisory positions in hotel, restaurant and travel establishments, encouraging them to develop 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, and on-premise training facilities including the Practice Restaurant, fully equipped demonstration kitchen, the small quantity food laboratory, practice kitchen and furnished hotel rooms in addition to the nearby five star Bilkent Hotel and Conference Center - Ankara, by international academic staff comprising both scholars and professionals from the industry. The school 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.

ACADEMIC STAFF

Duygu Albayrak, Instructor
M.S., Physics, Middle East Technical University, 2000. Discrete mathematics, information technologies.

Teoman Alemdar, Instructor
Aysel Altaban, Instructor

Oguz Benice, Instructor
Diplome, Etudes Superieures en Hoteillerie et Restauration, Ecole Hoteelliere de Lausanne, Switzerland, 1992. Food and beverage operations and management.

Sinan Bilaloglu, Instructor
M.S., Computer Engineering, Middle East Technical University, 2000. Rapid application development, database management systems.

Ibrahim Boz, Instructor

Jamel Ben Mohamed Chafr, Instructor

Ays Ben Bas Collins, Assistant Professor
Ph.D., Educational Sciences, Middle East Technical University, 1999. Human resources management, senior project.

Nazende Ozkaramete Coskun, Instructor

Ilhan Cetin, Instructor

Hacer Cinar, Instructor

Gulgun Demirel, Instructor

Sermin Elmas, Instructor
Ph.D., Sociology, Middle East Technical University, 2002. Sociology, organizational behavior.

Ebru Eren, Instructor
B.S., Geological Engineering, Hacettepe University, 1993. Database management, hospitality industry computerization, PC business applications, information systems analysis.

Yener Erguven, Instructor

Hakan Erkutlu, Instructor
Ph.D., Management, Gazi University, 2003. Business administration, marketing.

Tekin Ertan, Instructor
M.B.A., School of Hotel, Restaurant and Institutional Management, Michigan State University, 1965. Hotel operations, food and beverage operations.

Cevat Ertuna, Instructor

Zeliha Ilhan Ertuna, Instructor

Guliz Esen, Instructor

Tony Evans, Instructor
B.A., Economics, Sir George Williams University, Canada, 1968. Finance 1, Finance 2, PC business applications.
Serkan Genc, Instructor
M.S., Computer Engineering, Middle East Technical University, 1999. Computer graphics, operating systems, website design and implementation.

Faruk Goloğlu, Instructor

Eda Gürel, Instructor

Arzu Sibel ikinci, Instructor

Ebru İnanç, Instructor
B.A., English Language Literature, Hacettepe University, 1992. Business research skills, PC business applications.

Zeynep Işcan, Instructor
M.Soc.Sc., Radio-TV-Film, Ankara University, 2004. Organizational behaviour, international communications, business research skills, team effectiveness, introduction to sociology, introduction to social psychology.

Güneş Karamulaoğlu, Instructor
M.B.A., Social Sciences, Gazi University, 2000. Travel operations and management, tour development and implementation, event management.

Seyit Koçberber, Assistant Professor
Ph.D., Computer Engineering and Information Science, Bilkent University, 1996. Information retrieval, Database systems.

Hendrik C. Kuchlein, Instructor

Nuriye Örer, Instructor

Elif Sibel Özçilek, Instructor
B.A., Public Administration and Political Science, Middle East Technical University, 1990. European Union, business communications, public relations.

Perin Öztin, Instructor

Feray Özverim, Instructor

Aykut Pekcan, Assistant Professor

Vural Polat, Instructor

Kamer Rodoplu, Instructor

Nur Sağlam, Instructor
M.B.A., Gazi University, 1998. Introduction to programming business computer applications, industrial training, senior seminars in BIM.
Nazimuddeen M. Saleem, Instructor

Cüneyt Sevgi, Instructor

Fatih Sezgin, Visiting Professor

Aysın Solak-Örkcüoğlu, Instructor
M.S., Computer Engineering and Information Science, Bilkent University, 1991. Problem solving and algorithms, programming languages, natural language processing.

Neşe Şahin Özçelik, Instructor
M.S., Computer Engineering, Atılım University, Object oriented programming, JAVA, web programming, mechatronics.

Esin Şenol, Instructor
B.S., Food Engineering, Middle East Technical University, 1989. Food sciences, cost control.

Cem Tarhan, Instructor

Serpil Tın, Instructor
M.S., Electrical and Electronics Engineering, Middle East Technical University, 1991. Computer networks, programming languages.

Engin Türel, Instructor

Erkan Uçar, Instructor
M.S., Computer Engineering and Information Science, Bilkent University, 1993. Software engineering, programming languages, information systems, outsourcing.

Ali Ünal, Instructor

Rabia Üşenmez, Instructor

Hamdi Murat Yıldırım, Instructor

VOCAUTIONAL SPECIALISTS

Cem Aydın

Gözde Aytan

Leyla Öksüz

Burcu Özdöğru

Nimet Ceren Serim

Hatice Z. Yılmaz
PART-TIME ACADEMIC STAFF

Berrin Benli, B.S., Computer Engineering, Middle East Technical University, 1986.
Hüseyin Sıtık Çengel, B.S., Physics, Middle East Technical University, 2004.
Murat Duran, M.S., Software Management, Middle East Technical University, 2005.
Eser Isfendiyar, B.A., Administrative Sciences, Middle East Technical University, 1986.
Mehmet İzgi, B.S., Architecture, Portsmouth Polytechnic School of Architecture, 1975.
E. Murat Kösereisoğlu, B.S., Management, Middle East Technical University, 1989.
Sancar Özner, Ph.D., Marine Sciences and Geography, İstanbul University, 1988.
H. Şibay Tuğsavul, M.S., Demography, Hacettepe University, 1980.
Mengü Yazıcıoğlu, M.S., Science and Technology Policy Studies, Middle East Technical University, 2005.
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% in 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 important component of the students' development. Students experience, 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.

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### CURRICULUM

**FIRST YEAR**

#### Autumn Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits / ECTS Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIM 103</td>
<td>Keyboarding</td>
<td>3 / 5</td>
</tr>
<tr>
<td>BIM 105</td>
<td>Business Mathematics I</td>
<td>3 / 6</td>
</tr>
<tr>
<td>BIM 130</td>
<td>Introduction to Sociology</td>
<td>3 / 5</td>
</tr>
<tr>
<td>GE 100</td>
<td>Orientation</td>
<td>1 / 1</td>
</tr>
<tr>
<td>ECON 105</td>
<td>Principles of Economics I</td>
<td>3 / 6</td>
</tr>
<tr>
<td>ELS 101</td>
<td>English for Professional Purposes I</td>
<td>4 / 6</td>
</tr>
<tr>
<td>TURK 101</td>
<td>Turkish I</td>
<td>2 / 1</td>
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#### Spring Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits / ECTS Credits</th>
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<tbody>
<tr>
<td>BIM 106</td>
<td>Business Mathematics II</td>
<td>3 / 6</td>
</tr>
<tr>
<td>BIM 120</td>
<td>Introduction to Programming</td>
<td>4 / 6</td>
</tr>
<tr>
<td>BIM 131</td>
<td>Introduction to Social Psychology</td>
<td>3 / 5</td>
</tr>
<tr>
<td>ECON 106</td>
<td>Principles of Economics II</td>
<td>3 / 6</td>
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<tr>
<td>Course Code</td>
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<td>ELS 102</td>
<td>English for Professional Purposes II</td>
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<td>TURK 102</td>
<td>Turkish I</td>
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**SECOND YEAR**

<table>
<thead>
<tr>
<th>Semester</th>
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</thead>
<tbody>
<tr>
<td>Autumn</td>
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</tr>
<tr>
<td>BIM 121</td>
<td>PC Business Applications I</td>
</tr>
<tr>
<td>BIM 205</td>
<td>Principles of Accounting</td>
</tr>
<tr>
<td>BIM 223</td>
<td>Business Communications I</td>
</tr>
<tr>
<td>BIM 231</td>
<td>Business Research Skills</td>
</tr>
<tr>
<td>BIM 242</td>
<td>Web Site Development I</td>
</tr>
<tr>
<td>THM 105</td>
<td>Introduction to Business</td>
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<tr>
<td>HIST 201</td>
<td>History of Turkish Republic I</td>
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<tr>
<td>Spring</td>
<td></td>
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<tr>
<td>BIM 122</td>
<td>PC Business Applications II</td>
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<tr>
<td>BIM 215</td>
<td>Database Management Systems</td>
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<tr>
<td>BIM 224</td>
<td>Business Communications II</td>
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<tr>
<td>BIM 360</td>
<td>Finance I</td>
</tr>
<tr>
<td>THM 202</td>
<td>Principles of Management</td>
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<tr>
<td>HIST 202</td>
<td>History of Turkish Republic II</td>
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**THIRD YEAR**

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<tr>
<th>Semester</th>
<th>Credits / ECTS Credits</th>
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<tbody>
<tr>
<td>Autumn</td>
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<tr>
<td>BIM 210</td>
<td>Legal Aspects of Business</td>
</tr>
<tr>
<td>BIM 316</td>
<td>Information Systems Analysis</td>
</tr>
<tr>
<td>BIM 341</td>
<td>Web Site Development II</td>
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<tr>
<td>BIM 361</td>
<td>Finance II</td>
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<tr>
<td>BIM 390</td>
<td>Summer Training</td>
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<td>THM 301</td>
<td>Human Resources Management</td>
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<td>THM 309</td>
<td>Principles of Marketing</td>
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<tr>
<td>Spring</td>
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<td>BIM 310</td>
<td>Industrial Training Project</td>
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**FOURTH YEAR**

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<th>Credits / ECTS Credits</th>
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<td>Autumn</td>
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<tr>
<td>BIM 306</td>
<td>Decision Analysis</td>
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<tr>
<td>BIM 375</td>
<td>Public Relations</td>
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<tr>
<td>BIM 418</td>
<td>Management Information Systems</td>
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<tr>
<td>Spring</td>
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</tr>
<tr>
<td>BIM 206</td>
<td>Managerial Accounting</td>
</tr>
<tr>
<td>BIM 405</td>
<td>Organizational Behaviour</td>
</tr>
<tr>
<td>BIM 406</td>
<td>International Business</td>
</tr>
</tbody>
</table>

**COURSE DESCRIPTIONS**

**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 105 Business Mathematics I**

This course provides students with two important needs: (a) a solid mathematical background, and; (b) effective methods for solving the mathematical problems commonly encountered in business. It begins with basic arithmetic, algebra and the concepts of ratios and percentages, and continues with equations plus a variety of applications selected from various areas of business, such as discounting and calculating simple and compound interest. *Credit units: 3 ECTS Credit Units: 6. Aut (A. Durukal, N. Fenmen) Spr (A. Aitaban)*

**BIM 106 Business Mathematics II**

The course is to supply BIM students with basic mathematical background to enable them to follow quantitative courses, especially Decision Analysis subjects. To realize this aim, the concept he of functions is revised,
and exponential and logarithmic functions are studied. Differentiation and integration are treated briefly and their applications are demonstrated with concrete examples. Vectors and matrices are studied and the basic operations such as matrix addition, multiplication and inversion are introduced. Linear programming and Game theory are thought using elementary probability concepts and matrix algebra. Probability distributions of common discrete and continuous random variables, such as Binomial, Poisson, Uniform, Exponential and Normal distributions are then presented. Sampling and estimation subjects are covered to enable the students to make effective inferences from numerical information. In order to evaluate the relation between variables, bivariate distributions, Correlation, Least squares method, regression and modeling subjects are introduced. Credit units: 3 ECTS Credit Units: 6. Prerequisite: BIM 105 or BIM 107. Aut (F. Sezgin) Spr (F. Sezgin)

BIM 107  Elements of Business Mathematics
In this course, subjects of linear equations; functions; graphs of functions; mathematics of finance; probability and statistics basics, and matrix algebra will be covered. Credit units: 3 ECTS Credit Units: 6.

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: 6.

BIM 120  Introduction to Programming
The aim of the course is to improve the students’ analytical thinking and problem solving ability using a programming approach. The course will cover the basic problem solving concepts that the students need to know and understand when working in any language or application. The students will learn to firstly analyze and fully understand a problem, then to design a solution and lastly to create a structured program solution using C. The course begins by establishing the connection between good problem solving skills and effective software development. Three basic control structures, sequential, selection and repetition, built-in functions, user defined procedures and array data structures are the main topics covered in the course. Credit units: 3 ECTS Credit Units: 6.

BIM 121  PC Business Applications I
Business Information Management Department aims at helping the students to earn European Computer Driving License (ECDL). Certificate for their computer skills. The European Computer Driving License (ECDL) is the internationally recognised qualification which enables people to demonstrate their competence in computer skills and consists of a series of centrally controlled and standardized computer literacy exams. In this context, the course starts with a basic overview of Concepts of Information Technology; plus hardware, software, and Data Organization & Storage concepts and methods. Then continues with first introductory, and then advanced level usage of Word Processing using MS-Word. It is assumed that a student who successfully finished this course, will be able to get a valid a grade in ECDL Advanced Word Processing Proficiency Exam. Credit units: 3 ECTS Credit Units: 6. Spr (E. İnanç)

BIM 122  PC Business Applications II
This course covers three widely used PC business applications. The major focus is on spreadsheets, using MS-Excel. Starting from the very basics of 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 representation are included as part of the required term project. The term project combines MS-Excel with effective Internet research techniques and the advanced use of MS-Power Point, both of which are also taught in this course. Credit units: 3 ECTS Credit Units: 6. Aut (T. Evans) Spr (T. Evans)

BIM 130  Introduction to Sociology
This course introduces students to the subject matter, major concepts, and theoretical approaches of sociology. It focuses on identifying, explaining and interpreting social world. The course enables students to better understand the major components of the society and human social activities. Credit units: 3 ECTS Credit Units: 5. Aut (S. Elmas, Z. İscan)

BIM 131  Introduction to Social Psychology
This course is designed to acquaint the students 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, and applications of social psychology in health, the legal system and the work setting (organizations). Credit units: 3 ECTS Credit Units: 5.

BIM 161  PC General Applications
This course provides the fundamentals and basic concepts of personal computers and an introduction to general applications such as word processing, spreadsheets and the usage of Internet research. The course objective is to provide students with sufficient knowledge to effectively complete written and research assignments and to
be component users during their summer training. Credit units: 3 ECTS Credit Units: 3. Aut (C. Aydoğmuş) Spr (R. Üşenmez)

BIM 191  PC General Applications I
The objective of this PC pandemic course is to ensure that students are competent as introductory users of the most frequently encountered General Application Software Packages. Emphasis is placed on managing the computer resources, effective Internet search techniques, creating publishing and presenting information using Word processors. Credit units: 3 ECTS Credit Units: 5. Aut (C. Aydoğmuş, R. Üşenmez) Spr (A. Altaban)

BIM 192  PC General Applications II
This course is devoted largely to the use of spreadsheets, using MS-Excel. Starting with the basics of data types, data entry and editing, formatting, plus mouse and keyboard techniques, the focus turns to business applications employing a range of Excel mathematical, statistical, financial, logical and lookup functions. This course (together with BIM-191) is designed to provide students with knowledge to effectively complete written and research assignments, and to be proficient PC and business application users during their summer training, industrial training semester and later business careers. Credit units: 3 ECTS Credit Units: 5. Aut (R. Üşenmez) Spr (R. Üşenmez)

BIM 205  Principles of Accounting
The course introduces the accounting cycle and studies the concepts and principles of accounting that are utilized for business purposes. Accounting procedures that are used in the preparation of financial statements for sole proprietorships, partnerships and corporations, and financial statement analysis are covered. The course also 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 using computers. Credit units: 3 ECTS Credit Units: 5. Aut (E. Ösfendiyar)

BIM 206  Managerial Accounting
The objective of the course is to introduce the students the main issues in Management Accounting. The principal topics encompass; cost volume profit analysis, cost behaviour, costing systems, budgeting, unit cost calculations, pricing, variance analysis accounting and performance evaluation. At the end of this course, the students will be able to make decisions different levels of management, and on data and reports to facilitate the decision making process. Credit units: 3 ECTS Credit Units: 6. Aut (A. Pekcan) Spr (A. Pekcan)

BIM 210  Legal Aspects of Business
The basics of Turkish law and the Turkish Commercial Code are the focus of this course. Contract preparation and partnership operations are two major topics covered in the Course. During group studies students create samples of the legal documents typically encountered in business life. Credit units: 3 ECTS Credit Units: 5. Aut (G. D. Özgödek)

BIM 215  Database Management Systems
The objectives of this course are to explain, compare and employ the techniques and methodologies used in Database Management Systems (DBMS), in particular with the Entity Relationship model and the Relational Data model. The course consists of class sessions plus labwork sessions. The class sessions will start with database concepts, definitions, specifications and objectives. Normalization of database tables, Structured Query Language (SQL) conceptual design, its verification and logical design are introduced in design concepts. DBMS transactions and data independence will then be covered. These theoretical concepts are applied and enhanced through labwork sessions; during which students will analyze, design, create and manipulate databases. The labwork sessions prepare the students earn the certificate for European Computer Driving (ECDL). Module AMS, Database, Advance Level. 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 (E. Eren) Spr (E. Eren)

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. S. Özçilek)

BIM 224  Business Communications II
Verbal and nonverbal communication, importance of body language, conflict management skills, managing change and innovation, negotiation skills, inputs and outputs of communication, leader vs. manager, foundations of individual and group behavior, motivation and its significance in organizational effectiveness and efficiency. Credit units: 3 ECTS Credit Units: 6, Prerequisite: BIM 223. Spr (E. S. Özçilek)
BUSINESS INFORMA TION MANAGEMENT 381

BIM 231 Business Research Skills
This course is designed to teach both academic and business information research skills. The emphasis is on strategies, not sources. The structure of the course is constantly evolving in response to changes in information technology. Students will learn how to define information needs; construct effective search strategies; find and retrieve information; and to critically evaluate sources. Also, introduction to Internet and the use of search tools for effective information gathering on the World Wide Web, plus use of the Bilkent Intranet for library searches (BLISS), for Online Student Information (e.g., STARS, Student Services, STHM Website) and for sending e-mail, will be given. This class will enable students to achieve better results with school assignments and future business project. At the end of the semester, students are expected to submit an in-depth Academic Research Report. Credit units: 3 ECTS Credit Units: 5. Aut (E. İnanç, Z. İşcan)

BIM 242 Web Site Development I
During this course, taught in the PC laboratory, students gain a comprehensive understanding of the WWW, the purpose and value to an organization of owning a web site and the fundamentals of developing a web site. They will concentrate on the analysis that must precede and follow the actual writing of HTML pages; students will learn to identify the purpose, goal, and target audience of a Web site, and plan its structure, content, and navigation, using some popular technical tools including HTML, FrontPage, Paintshop Pro, ASP with Visual Basic Scripting, and Java Scripts. Working in teams students will prepare and present a web site project. Credit units: 4 ECTS Credit Units: 5. Aut (A. S. İkinci, R. Üşenmez) Spr (A. S. İkinci)

BIM 282 Hospitality Industry Computerization
The aim 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. It is both a theoretical and a practical course. A case study using hotel management software, students will learn how management reports are derived from the operational level transactions that flow through the hotel system every day. The course will enhance the student's understanding of hotel operations and management and integrate their understanding of other theoretical courses such as Rooms Operations Management and Hospitality Industry Accounting. Credit units: 3 ECTS Credit Units: 5. Aut (G. Esen) Spr (G. Esen)

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 subjects, emphasis is given on the description and logic of different techniques instead of a rigorous mathematical treatment. Therefore the student will be able to choose the suitable tools and go through more detailed information sources if necessary in the future. Keeping this approach in mind, Multiple Regression and Modelling, Analysis of Time Series, Analysis of Variance, Index Numbers, Quality Control are explored. In the studying problems involving Decision-Making Under Uncertainty, the concepts of relative cost and profit tables, decision trees, Bayes' Theorem, marginal analysis and utility are introduced. Credit units: 3 ECTS Credit Units: 6, Prerequisite: BIM 106. Aut (F. Sezgin) Spr (F. Sezgin)

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. Eren, F. Sezgin) Spr (E. Eren, E. İnanç, E. S. Özdiilık, F. Sezgin, R. Üşenmez)

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. Aut (E. Eren) Spr (E. Eren)

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 (ASP) 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: 5, Prerequisite: BIM 242 and BIM 201. Aut (A. S. İkinci) Spr (A. S. İkinci)
BIM 360  Finance I
This course focuses on understanding and using Financial Statements. Commencing with a review of accrual accounting, students then learn to analyze, interpret and draw conclusions about a company’s “health” based on its financial statements. Topics include revenue recognition, earnings quality, cash flow, 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 investing, financing and operating activities. Credit units: 3 ECTS Credit Units: 6, Prerequisite: BIM 205.

BIM 361  Finance II
This course focuses on financial management from the company perspective. 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 budgeting, working capital management, short and long term funding, dividend policy, financial forecasting and planning, plus selected topics in risk management. Credit units: 3 ECTS Credit Units: 5, Prerequisite: BIM 360.

BIM 375  Public Relations
This course offers an understanding of public relations concepts and practices. The major objectives are to teach students how to effectively communicate in attaining marketing/public relations goals, to help students understand the impact of public relations writing on a variety of audiences, to provide basic information about social identification and behavior, and to help students become familiar with the various media employed by public relations practitioners. Credit units: 3 ECTS Credit Units: 6, Prerequisite: BIM 224. Aut (E. Sözdilek) Spr (E. Sözdilek)

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: . Aut (N. Sağlam)

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 403  Communications Skills
This course is designed to enhance the students’ ability to analyze, summarize and effectively present their opinions, observations and recommendations on a variety of business issues. The emphasis is on oral presentation techniques and skills. Students will be given the basic concepts of determining the purposes of a speech and the necessity of using visual aids in presentation. Upon successful completion of the course, students will be able to deliver a presentation professionally. Credit units: 3 ECTS Credit Units: 6.

BIM 404  Interactive Communications
The aim of the course is to enhance the students’ understanding of the concepts of interpersonal communication and to develop their interpersonal communication skills in English focusing in particular on more formal discourse. Focus is on listening skills, verbal communication, communication in group, leadership in group communication and customer relations. Particular emphasis will be placed on the ability to communicate in writing in order to achieve work-related goals. Credit units: 3 ECTS Credit Units: 6.

BIM 405  Organizational Behaviour
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: 6. Spr (Z. İşcan)

BIM 406  International Business
The main aim of this course is to define the field of international business and emphasize the differences between business within the domestic context and business in the international context. It provides a basis for understanding the global business environment and a person’s place in it as the global business environment has increasingly influenced our professional, business and personal lives. Credit units: 3 ECTS Credit Units: 6. Spr (C. K. Sunar)

BIM 411  Senior Project I
Students are given a research project on a subject that will enrich their theoretical and practical knowledge in an area related to their future careers, preferably in the hospitality and travel industry. Students learn how to
conduct research in an introductory level. They will take a project from the stage of selecting a topic through to the production of a well-planned, well-written project final document. The course also aims to improve the students communication skills by concentrating on effective presentations at various stages of the study. Each student will understand the importance of responsibility delegation in a team. Credit units: 3 ECTS Credit Units: 6.

**BIM 412 Senior Project II**
Continuation of BIM 411. Credit units: 3 ECTS Credit Units: 6.

**BIM 413 Marketing Management**

**BIM 414 Research Methodology**
The aim of this course is to give students an understanding of scientific research and teach how to conduct research in an introductory level. The course covers topics such as the scientific method, problem definition, hypothesis formulation, research design, data collection and measurement methods, analyzing data and reporting. They will take a project from the stage of selecting a topic through to the production of a well-planned, well-written project final document. The course also aims to improve communication skills of students by concentrating on effective presentations at various stages of the study. Credit units: 3 ECTS Credit Units: 6.

**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 (E. M. Köşerėsülo)

**BIM 417 Senior Seminars in Business Information Management**
Exposes students to selected topics of current issues in business, information management and organizational communication, mostly with the support of guest speakers. The students will also participate in the planning and organization of the seminars. Credit units: 3 ECTS Credit Units: 6.

**BIM 418 Management Information Systems**
The goal of this course is to help students 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. Credit units: 3 ECTS Credit Units: 6. Aut (M. Duran) Spr (M. Duran)

**BIM 420 Team Effectiveness**
The aim of the course is to provide students with theoretical and practical insights into the nature of team dynamics, the stages of team development, the factors that affect team effectiveness and the methods for building team cohesiveness. Credit units: 3 ECTS Credit Units: 6. Spr (Zičcan)

**BIM 421 Total Quality Management**
This course provides an introduction to the application of Total Quality Management tools and techniques in both product and service industries. The theory and history of Quality Management in the world, important milestones and trends are discussed. The main principles of Total Quality management (customer focus, leadership, social impact, employee management, etc.) are introduced and some group work is done on those topics. Finally, the widely accepted Business Excellence Model of European Foundation for Quality Management (EFQM) is given with some real life business examples of successful companies. Credit units: 3 ECTS Credit Units: 6. Aut (R. Metan)

**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 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 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. Credit units: 3 ECTS Credit Units: . Aut (Ç. Başarrı)

BIM 430 Consumer Behavior

BIM 440 European Union
The objective of this course is to become aware of the developments around us, what our personal responsibilities are and to investigate the importance of the issue of Turkey’s Western integration and Turkey’s importance to the West in this new post cold war era. To understand EU as a regional organization, students will first learn about its peculiar law, which is entirely different from International Law. Also it is mandatory to understand the institutions of EU and their functions. Topics to be covered in this course are: European Union Law and its tools, national characteristics of European institutions, supranationality of European Union, Turkey and European Union relations, approximation of Turkish Law to European Law, challenges and prosperity in Turco-European relations. Credit units: 3 ECTS Credit Units: 6.

BIM 445 Implementing Web Based Intra Portals
How to achieve the performance in an organisation by using the information systems goes through the combination of “common usages” and “common goals” in one screen from various locations at various periods where it is called as “portal”. This lecture aims to give basic and important principles to settle, develop a portal and also how to make this technology usable, and always live in real working life. Credit units: 3 ECTS Credit Units: 6. Spr (M. Duran)

BIM 450 Multimedia Techniques
Introduction to multimedia presentation techniques combined with selective types of digital media such as graphics, video, animation, sound, etc. Course is based on practical exercises and weekly assignments. Students are expected to be working as groups and perform a major multimedia project fulfilling the given criterias by the end of the semester. The course will focus on special multimedia editing softwares such as Adobe Premiere, Adobe Photoshop and Macromedia Flash technology will be examined for authoring and development of interactive online or offline media. Credit units: 3 ECTS Credit Units: 6. Spr (E. M. Köşereişioğlu)

BIM 455 Judgement and Decision Making
This course focuses on understanding judgement and decision making processes, and is based on social psychology which includes cognitive, personality, development and psychology. We shall try to analyze why these decisions produce strong feelings and emotions, what brases our decisions, what are beyond our control and how we can make better decisions. Credit units: 3 ECTS Credit Units: 6. Spr (Ç. Başarrı)

BIM 469 International Communications
The aim of the course is to introduce students to the main concepts, dilemmas, controversies and conflicts, as experienced in both historical and modern society, in light of the international communication system. International communications will be studied in terms of the political, economic and cultural relations between nation states. It is also an aim to provide a broad understanding of the role of the media in international communication and international relations. Students will be required to discuss current political events and news during each lecture. Students’ participation in class and seminar discussions is expected and will be considered in the final course grades. Credit units: 3 ECTS Credit Units: . Aut (Z. İşcan)

BIM 471 Information Architecture
This is a “finishing course” for BIM students who have successfully completed the System Development course (63-316) plus both Website Development courses, (63-242, 63-341). The focus is on effective presentation of information produced by computer applications, with particular emphasis on Website design and e-commerce. The first aim is to sensitize students to Human Computer Interactions related to information input, retrieval and display. Then, through critical analysis of existing systems, students will gain a sound understanding of Website Organizational Schemes, Organizational Structures, Labeling and Navigation systems, plus Information Retrieval tools. The creative aspects of Webpage design - graphics and content editing - will be evaluated in terms of Website usability. Finally, the organizational challenges of dealing with conflicting requirements when developing Web-based information systems, plus techniques for reconciling these differences, are explored. Credit units: 3 ECTS Credit Units: 6.

BIM 482 Electronic Business
Information systems, particularly those dealing with Electronic Business, have become a critical part of the products, services, and management of organizations. The effective and efficient use of information technology is an important element in achieving competitive advantage for business organizations and excellence in service for government and non-profit organizations. This course will not only help the student to gain the ability to develop, implement and manage an infrastructure of information technology, data, and organization-wide systems, but it
will also help develop the skills to manage, analyze and develop applications dealing with electronic business. They will also be able to assist in incorporating information technology into the organization’s strategy, planning, and practices. **Credit units: 3 ECTS Credit Units: 6.**

**BIM 490  Project Management**

This course applies the basic principles of project management which have been provided in the course BIM 498 that is prerequisite to this course. The students will be able to practice the planning of a project, setup and lead a team, monitor progress, and bring the project to a satisfactory completion. All 5 phases of Project Management which have been thought in BIM 498 will be applied in this course. The students will also learn the advanced features of MS2002 and will be able to use it in their project implementation. **Credit units: 3 ECTS Credit Units: 6.**

**BIM 491  Business Computer Applications**

The aim of this course is to introduce students to computerization in the hospitality industry. Through a widely-used computer application package, students will gain the ability to create the necessary database system for food and beverage management. They will learn the relationship between the food and beverage department and suppliers, how to make issues between the hotel stores, restaurants and suppliers, how to create sales items order procedures and purchasing, cost management of the sales outlets. **Credit units: 2 ECTS Credit Units: 4.**

**BIM 492  Strategic Management**

This course focuses on aligning resources with the strategic plan, configuring and integrating the operating processes to support the strategic plan and implementing change. This course includes the application of learned skills and the testing, distillation and integration of insights gained from previous courses and other sources. **Credit units: 3 ECTS Credit Units: 6.**

**BIM 493  Computer Reservation Systems**

This course is a follow up of BIM 284 Travel Industry Computerization. The student will be given the knowledge of fare information, making a hotel reservation, issuing a ticket and other travel data by using one of the most widely used computer reservation systems, an essential tool for the travel agency industry. **Credit units: 2 ECTS Credit Units: 4.**

**BIM 494  Selected Topics in Business**

This course, together with BIM 498, will provide graduating students with leading edge information in each of the three areas of BIM department specialization. Guest instructors drawn from industry will offer real world perspective on the current trends and debates in their professions. Topics covered can range from ethical legal and social issues to an advanced treatment of material studied in earlier semesters. **Credit units: 3 ECTS Credit Units: 6.**

**BIM 496  Selected Topics in Business Communications**

The subject matter of this advanced Business Communication course will vary from year to year based upon the recommendations of the guest instructors who are drawn from industry. The aim of the course is to ensure that BIM graduates enter the marketplace sensitized to the most recent trends and techniques in the constantly evolving field of Business Communications. Class projects may be assigned to supplement readings, lectures and class discussion. **Credit units: 3 ECTS Credit Units: 6.**

**BIM 498  Selected Topics in Information Management**

The objective of this Senior Year course is to provide graduating students with current trends in the rapidly changing area of Information Management. To ensure that course material is at the leading edge of IM developments, instruction is provided by IM professionals drawn from business and industry. Although the course content is dynamic, the focus is on integrating state-of-the-art information technologies into the daily operations of an organization. **Credit units: 3 ECTS Credit Units: 6.**
COMPUTER TECHNOLOGY AND INFORMATION SYSTEMS


Part-time: H. S. Çengel, M. Yazaroğlu.

Department of Computer Technology and Information Systems offers a four-year BSc. degree in information technology (IT) and information systems (IS) with a curriculum designed to meet the popular and expanding IT industry requirements, 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. A semester-long industrial training opportunity enables them to practically apply their background on topics like database, data communications, Internet and e-commerce applications, system development and programming.

CURRICULUM

FIRST YEAR

<table>
<thead>
<tr>
<th>Autumn Semester</th>
<th>Credits / ECTS Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CTIS 151 Introduction to Programming</td>
<td>5 / 10</td>
</tr>
<tr>
<td>CTIS 153 Discrete Mathematics I</td>
<td>3 / 6</td>
</tr>
<tr>
<td>CTIS 155 Information Technologies I</td>
<td>3 / 5</td>
</tr>
<tr>
<td>GE 100 Orientation</td>
<td>1 / 1</td>
</tr>
<tr>
<td>BM 100 Keyboarding</td>
<td>2 / 2</td>
</tr>
<tr>
<td>ELS 101 English for Professional Purposes I</td>
<td>4 / 6</td>
</tr>
<tr>
<td>Spring Semester</td>
<td>Credits / ECTS Credits</td>
</tr>
<tr>
<td>CTIS 152 Algorithms and Data Structures</td>
<td>5 / 9</td>
</tr>
<tr>
<td>CTIS 154 Discrete Mathematics II</td>
<td>3 / 5</td>
</tr>
<tr>
<td>CTIS 156 Information Technologies II</td>
<td>3 / 5</td>
</tr>
<tr>
<td>THM 105 Introduction to Business</td>
<td>3 / 6</td>
</tr>
<tr>
<td>ELS 102 English for Professional Purposes II</td>
<td>4 / 6</td>
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SECOND YEAR

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<tr>
<th>Autumn Semester</th>
<th>Credits / ECTS Credits</th>
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<tbody>
<tr>
<td>CTIS 251 Object Oriented Programming</td>
<td>5 / 9</td>
</tr>
<tr>
<td>CTIS 255 Web Technologies I</td>
<td>3 / 6</td>
</tr>
<tr>
<td>CTIS 257 Computer Architecture</td>
<td>4 / 8</td>
</tr>
<tr>
<td>THM 258 Principles of Economics</td>
<td>3 / 5</td>
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<tr>
<td>HIST 201 History of Turkish Republic I</td>
<td>2 / 1</td>
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<tr>
<td>TURK 101 Turkish I</td>
<td>2 / 1</td>
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<tr>
<td>Spring Semester</td>
<td>Credits / ECTS Credits</td>
</tr>
<tr>
<td>CTIS 252 Programming in Java</td>
<td>5 / 9</td>
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<tr>
<td>CTIS 254 Fundamentals of Database Systems</td>
<td>4 / 8</td>
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<tr>
<td>CTIS 256 Web Technologies II</td>
<td>3 / 6</td>
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<tr>
<td>HIST 202 History of Turkish Republic II</td>
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<tr>
<td>TURK 102 Turkish II</td>
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<tr>
<td>Non-Technical Elective</td>
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THIRD YEAR

<table>
<thead>
<tr>
<th>Autumn Semester</th>
<th>Credits / ECTS Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CTIS 290 Summer Training</td>
<td>5 / 7</td>
</tr>
<tr>
<td>CTIS 351 Rapid Application Development</td>
<td>4 / 7</td>
</tr>
<tr>
<td>CTIS 353 Database Management Systems</td>
<td>4 / 7</td>
</tr>
</tbody>
</table>
CTIS 357 Algorithms and Problem Solving ............................................. 3 / 7
ELS 301 Advanced Communication Skills ............................................. 3 / 4
Non-Technical Elective ................................................................. 3 / 5

Spring Semester Credits / ECTS Credits
CTIS 310 Industrial Training Project .................................................. 4 / 30

FOURTH YEAR

Autumn Semester Credits / ECTS Credits
CTIS 451 Data Communications and Networking .................................. 4 / 8
CTIS 453 Selected Topics in Information Systems I ............................... 3 / 7
CTIS 455 Software Engineering ....................................................... 4 / 6
CTIS 457 Survey in Information Technologies .................................... 2 / 4
THM 458 Principles of Management ................................................ 3 / 5

Spring Semester Credits / ECTS Credits
CTIS 452 Information Systems Applications ...................................... 3 / 6
CTIS 454 Selected Topics in Information Systems II ............................ 4 / 6
CTIS 456 Senior Project ................................................................. 4 / 9
CTIS 458 Seminars in Information Systems ......................................... 2 / 4
Restricted Elective ................................................................. 3 / 5

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: 10. Aut (A. Solak, S. Tın) Spr
(Staff)

CTIS 152 Algorithms and Data Structures
Implementation of abstract data types and structures. Dynamic data structures. Strings, stacks, queues, linked
lists, trees, graphs. 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: 9,
Prerequisite: CTIS 151. Spr (Staff)

CTIS 153 Discrete Mathematics I
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 and logic circuit, mathematical inductions, set theory and operations on sets,
relations and functions, counting methods and the Pigeonhole Principle. Recurrence Relations. Credit units: 3
ECTS Credit Units: 6. Aut (F. Göloğlu, H. M. Yıldırım) Spr (Staff)

CTIS 154 Discrete Mathematics II
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. Credit units: 3 ECTS Credit
Units: 5, Prerequisite: CTIS 153. Spr (Staff)

CTIS 155 Information Technologies I
The aim of the course is to provide knowledge on the essential current computer applications and computer
literacy. The main topics are: General history of computer. Hardware components, configurations and setup.
Basics of operating systems. Windows administration. Office applications and utilities. The students are
expected to gain the familiarity with the fundamentals of computer usage. (Three hours lecture in lab.) Credit
units: 3 ECTS Credit Units: 5. Aut (V. Polat, C. Sevgi, H. M. Yıldırım) Spr (Staff)

CTIS 156 Information Technologies II
The course introduces basic operating system concepts by using Linux operating system. Covered Linux topics
include: Linux GUI, kernel, GUI, shells, basic shell programming. Linux file system architecture, file security, etc.
The course also introduces networking and internetworking concepts as well as TCP/IP protocol suite. Credit
units: 3 ECTS Credit Units: 5, Prerequisite: CTIS 155. Spr (Staff)
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. C++ 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 C++. Credit units: 5 ECTS Credit Units: 9, Prerequisite: CTIS 152. Aut (S. Bilalolu, N. Sahan Ozcelik)

CTIS 252  Programming in Java
The main aim of this course is to make the students be component in 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. The course topics are: The syntax of Java. Classes and objects. Theoretical aspects of programming in Java. Java applications. Java applets. Components. Event-driven programming. Multithreading. Java class libraries. (Four hours lecture, three hours lab.) Credit units: 5 ECTS Credit Units: 9, Prerequisite: CTIS 251. Spr (Staff)

CTIS 254  Fundamentals of Database Systems
The course will provide a brief introduction to information and database system. Representing information with data models. Relationships and relationship types. Data modeling with Entity-Relationship (E-R) diagrams. Developing relational models. Creating a relational database. Functional dependences and normalization. Relational algebra. Introduction to Structured Query Language (SQL). (Four hours lecture, two hours lab.) Credit units: 4 ECTS Credit Units: 8, Prerequisite: CTIS 152. Spr (Staff)

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. Credit units: 3 ECTS Credit Units: 6, Prerequisite: CTIS 151. Aut (S. Genç)

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: 6, Prerequisite: CTIS 255. Spr (Staff)

CTIS 257  Computer Architecture
The course material covers both digital design and computer architecture. The students will learn the elementary components of the digital circuity of computers and the logic knowledge to combine them. Then, they will learn the hardware model of the digital computers and assembly programming. The aim of the course is to provide the basic knowledge necessary to understand the hardware operation of digital computers and then deal with the computer organization in a more abstract level. The laboratory work includes applications using a digital logic circuits simulation tool and assembly programming. (Three hours lecture, two hours lab.) Credit units: 4 ECTS Credit Units: 8, Prerequisite: CTIS 151 and CTIS 154. Aut (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: . Aut (A. SolakOrkculgu)

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. Spr (Staff)

CTIS 351  Rapid Application Development
Introduction to the concepts and tools of the rapid development process. Basic programming applications and visual interface design using a Rapid Application Development (RAD) environment and toolset, enabling students to be more productive, more quickly. (Three hours lecture, two hours lab.) Credit units: 4 ECTS Credit Units: 7, Prerequisite: CTIS 251. Aut (S. Bilalolu)
CTIS 353  Database Management Systems
The students will learn how to design, maintain and access a database effectively. In the labs, real-life database applications will be implemented. Topics include database design, construction and refinement of database tables, normal forms, and transaction management. SQL will be thought as the query language to create, access, and update databases. (Three hours lecture, three hours lab.) Credit units: 4 ECTS Credit Units: 7, Prerequisite: CTIS 254. Aut (H. S. Çengel, M. Yazıcıoğlu)

CTIS 357  Algorithms and Problem Solving
Algorithms and problem solving techniques. Sorting, searching, divide and conquer algorithms, dynamic programming, greedy algorithms, graph algorithms, cryptographic algorithms. Basic analysis of algorithms. Improves students’ analytical thinking skills. Credit units: 3 ECTS Credit Units: 7, Prerequisite: CTIS 152 and CTIS 154. Aut (F. Göloğlu)

CTIS 451  Data Communications and Networking
Overview of the most important computer networking concepts, principles and technologies. Covered topics include: Transmission media, short-distance and long-distance communications, packets, frames and error detection, LANs, WANs, internetworking, protocols and layering models, TCP/IP protocol suite. Credit units: 4 ECTS Credit Units: 8, Prerequisite: CTIS 154 and CTIS 156. Aut (V. Polat)

CTIS 452  Information Systems Applications
The objective, of the course is to teach the basics of multimedia concepts through various multimedia applications. Multimedia definition. Multimedia applications and tools. Multimedia authoring. Scripting. Components of a multimedia application; image, animation, audio and video. Interactivity. Visual and technical design. Graphics, image and video editing. File formats. Image video and audio compression. (Three hours lecture in lab.) Credit units: 3 ECTS Credit Units: 6. Spr (Staff)

CTIS 453  Selected Topics in Information Systems I
The course introduces the students to the fundamental concepts of information systems. These include, systems theory; management information in organizations, MIS; decision support systems; enterprise resource planning systems; information systems planning; organizing for information system projects; IS project lifecycle models; IS development and maintenance principles; organization, management and control IS, IS outsourcing. (Three hours lecture.) Credit units: 3 ECTS Credit Units: 7. Aut (E. Uçar)

CTIS 454  Selected Topics in Information Systems II
The objective of this course is to provide the required information and technology to 2D and 3D graphics software systems. In addition to giving the basic concepts behind the graphics systems. It enables students to learn a widely used graphics library, Open GL, for the implementation. (Four hours lecture in lab.) Credit units: 4 ECTS Credit Units: 6. Spr (Staff)

CTIS 455  Software Engineering
Software project management: Metrics, estimation, planning. Software requirements analysis techniques. Software design techniques. Software implementation. Software quality assurance. Software testing. Software maintenance. Review of case technology. Introducing a breadth of concepts and techniques for the development of software. Creating awareness for the quality and severity of software aspects. (Four hours lecture, one hour recitation.) Credit units: 4 ECTS Credit Units: 6, Prerequisite: CTIS 252 and CTIS 254. Aut (C. Sevgi)

CTIS 456  Senior Project
Students are assigned a project that will allow them to use their skills and knowledge under close supervision of a faculty advisor. The students will be required to prepare a web page for their project and to analyze, design, program, and fully document a medium-size software system. During an oral presentation to a faculty board, the students will provide a full demonstration of their work. Credit units: 4 ECTS Credit Units: 9, Prerequisite: CTIS 353 and CTIS 455. 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. Credit units: 2 ECTS Credit Units: 4. Aut (N. Şahin Özçelik)

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 hold. Main aim of the course is to enable senior level students get familiar with latest technologies and hot topics. Credit units: 2 ECTS Credit Units: 4. Spr (Staff)
TOURISM AND HOTEL MANAGEMENT


TOURISM AND HOTEL MANAGEMENT PROGRAM

Tourism is not only the fastest growing industry, it is also a global industry increasingly influenced by multi-national enterprises. Thus students who select Hotel Management as their area of specialization will follow a curriculum that prepares them for a career in the hotel and restaurant business both domestically and world-wide. Courses focus on managerial skills, finance and accounting, hotel operations, computer literacy, fluency in English and competence in a second foreign language.

CURRICULUM

FIRST YEAR

<table>
<thead>
<tr>
<th>Autumn Semester</th>
<th>Credits / ECTS Credits</th>
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<tbody>
<tr>
<td>THM 106</td>
<td>Principles of Accounting</td>
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<tr>
<td>THM 163</td>
<td>Dynamics of Tourism</td>
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<td>THM 172</td>
<td>World Travel Destinations</td>
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<tr>
<td>GE 100</td>
<td>Orientation</td>
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<td>BM 100</td>
<td>Keyboarding</td>
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<td>BIM 191</td>
<td>PC General Applications I</td>
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<td>ELS 101</td>
<td>English for Professional Purposes I</td>
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<td>TURK 101</td>
<td>Turkish I</td>
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<td>Second Foreign Language*</td>
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SECOND YEAR

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<tr>
<th>Spring Semester</th>
<th>Credits / ECTS Credits</th>
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<tbody>
<tr>
<td>THM 107</td>
<td>Microeconomics</td>
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<tr>
<td>THM 164</td>
<td>Calculus</td>
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<tr>
<td>THM 166</td>
<td>Health Studies</td>
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<tr>
<td>THM 167</td>
<td>Behavior and Etiquette</td>
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<td>THM 168</td>
<td>Nutrition and Sanitation</td>
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<td>ELS 102</td>
<td>English for Professional Purposes II</td>
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<td>TURK 102</td>
<td>Turkish II</td>
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<tr>
<td>THM 205</td>
<td>Macroeconomics</td>
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<tr>
<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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<tr>
<td>THM 247</td>
<td>Food and Beverage Management</td>
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<tr>
<td>THM 269</td>
<td>Co-Op Management Application</td>
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<tr>
<td>BIM 282</td>
<td>Hospitality Industry Computerization</td>
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<tr>
<td>HIST 201</td>
<td>History of Turkish Republic I</td>
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<th>Spring Semester</th>
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<tr>
<td>THM 202</td>
<td>Principles of Management</td>
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<tr>
<td>THM 242</td>
<td>Social Psychology</td>
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<td>THM 244</td>
<td>Food Production Techniques</td>
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<td>THM 246</td>
<td>Restaurant Service</td>
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<tr>
<td>THM 252</td>
<td>Tourist Attractions of Turkey</td>
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<td>HIST 202</td>
<td>History of Turkish Republic II</td>
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<td>THIRD YEAR</td>
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<td>Autumn Semester</td>
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<td>THM 300</td>
<td>Summer Training</td>
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<td>THM 301</td>
<td>Human Resources Management</td>
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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>Spring Semester</td>
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<td>THM 310</td>
<td>Industrial Training Project</td>
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<td>FOURTH YEAR</td>
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<td>Autumn Semester</td>
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<td>THM 403</td>
<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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<td>Spring Semester</td>
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<td>THM 418</td>
<td>Senior Project</td>
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<td>THM 419</td>
<td>Tourism Management Applications</td>
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<td>THM 420</td>
<td>Seminars on Tourism Industry</td>
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<tr>
<td>THM 423</td>
<td>Tourism Economics</td>
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<td>RESTRICTED ELECTIVES</td>
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<tr>
<td>THM 391</td>
<td>Business Forecasting</td>
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<td>THM 392</td>
<td>Nutrition and General Health</td>
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<td>THM 396</td>
<td>Case Studies for Tourism</td>
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<td>THM 453</td>
<td>Total Quality Management</td>
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<td>THM 454</td>
<td>Management Behavior and Team Effectiveness</td>
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<td>THM 475</td>
<td>Strategic Marketing for the Hospitality Industry</td>
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<td>THM 478</td>
<td>Hotel Investment Decision</td>
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<td>THM 482</td>
<td>Club Management</td>
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<td>THM 483</td>
<td>Select Issues in Turkish Tourism</td>
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<td>THM 484</td>
<td>Case Studies in Applied Marketing</td>
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<td>THM 485</td>
<td>Hospitality Architecture and Design</td>
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<td>Concept and Design for Food and Beverage Outlets</td>
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<td>THM 488</td>
<td>Eco-Tourism</td>
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<td>THM 911</td>
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<td>* SECOND FOREIGN LANGUAGE COURSES*</td>
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<td>Japanese</td>
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<tr>
<td>Russian</td>
<td>RUS 161/162/163/164/261</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: 6. Aut (Y. Ergüven, Özverim) Spr (Y. Ergüven, F. Özverim)

THM 106  Principles of Accounting
Introduces and studies the concepts and principles of accounting that are utilized for managerial purposes. This course aims to familiarize students with various tools and techniques that are currently used in accounting. Credit units: 3 ECTS Credit Units: 5. Aut (H. Çınar, Z.İ. Ertuna) Spr (H. Çınar, Z.İ. Ertuna)

THM 107  Microeconomics
Familiarizes students with the basic principles and concepts of microeconomics. The course will mainly concentrate on the general knowledge, terminology, concepts and procedures utilized in the analysis of microeconomic units and provide an overview of microeconomic problems and their possible solutions. Credit units: 3 ECTS Credit Units: 5. Aut (İ. Çetin) Spr (İ. Çetin)

THM 158  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: 6.

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, intermediates and attractions are discussed. Credit units: 3 ECTS Credit Units: 5. Aut (G. Karamullaoğlu) Spr (G. Karamullaoğlu)

THM 164  Calculus
Provides background knowledge of mathematical procedures that are designed to analyze numerical information essential in decision making, for those who intend to pursue a career in hospitality management. Topics include: linear and quadratic equations; rate of change of functions; derivatives and integration. Credit units: 3 ECTS Credit Units: 5. Aut (K. Rodoplu) Spr (A. Altaban, K. Rodoplu)

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 prompt 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 (N.Örer) Spr (E. Şenol)

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 (T. Alemdar) Spr (Z.İ. Ertuna)

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 (N.Örer) Spr (N. Örer)

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 (E. Gürel)

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 (H. Erkutlu, A. Pekcan)
THM 205  Macroeconomics
Focuses on topics in macroeconomics: national output and national income; nature of money and monetary institutions; unemployment and growth; international monetary systems. Credit units: 3 ECTS Credit Units: 5. Aut (İ. Çetin) Spr (İ. Çetin)

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 (Ş. Elmas) Spr (Ş. Elmas)

THM 243  Rooms Division Management
The course is intended to examine the two basic functions of rooms division management: house keeping and front office operations. The course is also aimed at helping students acquire the basic skills necessary for the operations and other management analyses. Students will be introduced to the concepts and techniques of rooms sales forecasting, revenue budgeting, analyses of rooms sales and profit, break-even analysis, rooms pricing and yield management. Credit units: 3 ECTS Credit Units: 5. Aut (J. B. M. Chafra) Spr (J. B. M. 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 used; 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: 4. Aut (H. C. Kuchlein) Spr (H. C. Kuchlein)

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
Provides students with practical training in all aspects of restaurant operations and an in-depth approach to managerial skills for efficient food and beverage operations. Major topics include marketing strategies, menu planning and analysis, as well as labor organization and control. 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 (P. Öztin) Spr (P. Öztin)

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 (F. Özverim) Spr (F. Özverim)

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 per semester for the employer 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: 5. Aut (E. Türel) Spr (E. Türel)

THM 300  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 seventy-five (75) work days, takes place during the summer period. Credit units: None ECTS Credit Units: 3. Aut (E. Türel) Spr (E. Türel)
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 (H. Erkutlu) 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 knowledge and skills 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 or THS 190. Aut (O. Benice, J. B. M. Chafra, T. Ertan, E. Türel) Spr (T. Alemdar, O. Benice, T. Ertan, E. Türel)

THM 313 Hospitality Management Accounting
The course, with the help of accounting and internal control techniques, provides students an analytical perspective to evaluate the hospitality industry. 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 246 and THM 244. Aut (H. C. Kuchlein) Spr (H. C. Kuchlein)

THM 326 Tourism Policies and Sustainability
The central role that governments play in development and sustainability of the tourism industry. Government attitudes and involvement on the tourism development and protection of natural resources are analyzed. Credit units: 3 ECTS Credit Units: 5. Aut (İ. Boz) Spr (İ. Boz)

THM 327 Event Management
Events, or in other words, meetings and conventions have become major activities in world tourism industry. The course first focuses on historical 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: 2 ECTS Credit Units: 4.

THM 348 Service Operations Management
Focuses on the management of hotel and tourism service operations. Conceptual and quantitative skills for dealing with key operational issues are taught. Credit units: 3 ECTS Credit Units: 5. Aut (J. B. M. Chafra) Spr (J. B. M. 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: 6. Aut (N. Örer) Spr (N. Örer)

THM 395 Basic Ticketing
Provides students with the basic airline ticketing rules and regulations, geography and codes, reservation terms, domestic and international ticketing procedures by referring to ABC World Guide, Airline Passenger Tariff. Credit units: 3 ECTS Credit Units: 6.

THM 396 Case Studies for Tourism
The purpose of the course is to cover the innovative techniques of defining different aspects of tourism and hospitality world’s problem areas and exploring through the use of selected domestic and international case studies the solution of those. Credit units: 3 ECTS Credit Units: 6. Aut (N. Ö. Coşkun) Spr (N. Ö. Coşkun)

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 (Ş. Elmas) Spr (Ş. Elmas)
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 (C. Tarhan) Spr (C. Tarhan)

THM 415 **Finance**
Focuses on the theory and practice of financial management, including financial planning and control, valuation and financial structure, cash flows, economic and financial optimization, cost of capital, capital budgeting decisions, short-term and long-term financing and valuation processes. Studies tourism industry financial statements including consideration of the significant relationships between the various accounts found in financial reports. Tax environment, profit planning, budgeting and forecasting. **Credit units:** 3 ECTS Credit Units: 5. Aut (C. Ertuna) Spr (C. Ertuna)

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 regression analysis; analysis of variance; other methods of multivariate analysis. **Credit units:** 3 ECTS Credit Units: 5. Aut (C. Ertuna) Spr (C. Ertuna)

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: 10. Aut (A. B. Collins, N. O. Coskun, I. Cetin, A. Pekcan) Spr (A. B. Collins, N. O. Coskun, S. Elmas, H. Erkutlu, Z. I. Ertuna, E. Gurel, A. Pekcan)

THM 419 **Tourism Management Applications**
Overviews management challenges in the hospitality and tourism industry, and the quantitative methods of control and decision making employed in this industry world-wide. The course explores practical applications of general management theory in the context of the tourism and hospitality industry. **Credit units:** 3 ECTS Credit Units: 5. Aut (T. Alemdar) Spr (T. Alemdar)

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 (T. Ertan) Spr (T. Ertan)

THM 423 **Tourism Economics**
Analyzes macro and micro aspects of domestic-international tourism with their impact on national economies, tourism sector and individual operations. The interrelation among macro economic factors and components of the tourism sector are also projected. **Credit units:** 3 ECTS Credit Units: 5. Prerequisite: THM 107 and THM 205. Aut (C. Tarhan) Spr (C. Tarhan)

THM 453 **Total Quality Management**
Focuses on the ways to set standards in hotels, restaurants, airlines and other hospitality companies and explores monitoring evaluating and redesigning the quality requirements in tourism industry. **Credit units:** 3 ECTS Credit Units:

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: . Aut (Y. Erguven) Spr (Staff)

THM 458 **Principles of Management**
Provides insights in to 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.

THM 475 **Strategic Marketing for the Hospitality Industry**
The course intends to present the strategic 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: .

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: .
THM 478 Hotel Investment Decision
A survey of various theories and techniques available by which management may determine the financial feasibility of investments in the hospitality field. Credit units: 3 ECTS Credit Units: 6.

THM 482 Club Management
The Club Management course tends to create an awareness in the mind of the Hospitality students that Clubs might be either a good potential employment opportunities in their future business lives as staff, supervisor, manager or decent business endeavor as operator and owner. Credit units: 3 ECTS Credit Units: 6. Aut (T. Alemdar)

THM 483 Select Issues in Turkish Tourism
The course adds new dimensions and an awareness in the minds of tourism and hospitality students that knowledge already gained will easily result in the formation of new ideas. Students will develop logical approaches towards different modes of cases pertaining to structural, operational, social and cultural problems. Credit units: 3 ECTS Credit Units: 6. Spr (A. B. Collins)

THM 484 Case Studies in Applied Marketing
The course is designed to provide students with the analytical skills necessary to make major marketing decisions in an organization. Students will analyze marketing practices of hospitality and tourism companies and apply marketing principles to actual hospitality and tourism cases in an integrative and choiseive manner. The specific objectives are; to provide an opportunity for the integration of diverse marketing knowledge, to develop/practice decision-making skills required for effective marketing, to be exposed to actual marketing applications of market- ing management through case study analysis of real life marketing situations to provide an opportunity to improve written and oral participation/discussion skills through the case study methodology. Credit units: 3 ECTS Credit Units: .

THM 485 Hospitality Architecture and Design
The course is designed to inform students about the relationship between architecture and tourism, stressing the importance of environmental principles, complexities and contradictions. Hotel design, design objectives, sites, the building law and regulations, environmental control, landscape and interior design, permanence and change are studied. Credit units: 3 ECTS Credit Units: 6. Aut (M. Izgi)

THM 488 Eco-Tourism
The course is designed to concentrate on ecotourism and ecosystems. Formation of coastal forms, effects of progressive river deltas on the antique sites located in the coastal zones, negative impact of man on the coastal zones and resulting coastal erosion are explored. Formation of karstic forms and karstic springs, volcanic landforms, evolution of the landscapes of Cappadocia and of its cultural heritage with ecotourism potential of a sample site and its surroundings are studied. Credit units: 3 ECTS Credit Units: 6.

THM 911 Selected Topics in Tourism I
An advanced course in the study of tourism and hospitality management. Emphasis is placed on the development of the tourism industrial base and development of infra - superstructure. Students are expected to engage in a wide range of discussion and analysis of the effects of tourism and hospitality management on various environments. Credit units: 3 ECTS Credit Units: 6. Spr (Staff)
SCHOOL OF ENGLISH LANGUAGE

John O'Dwyer, M.A., Director

Bilkent University School of English Language (BUSEL) has three main areas of activity: providing a Preparatory Program to enable students to meet the English language requirements for study in the different faculties and schools of Bilkent University; providing credit bearing courses in English for Academic Purposes to the same faculties and schools; and, offering an associate degree in English and Translation Studies.

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ENGLISH LANGUAGE PREPARATORY PROGRAM

E. Küchner (Director)

As English is the medium of instruction at Bilkent University students are required to have a good command of English before entering the freshman programs. The BUSEL Preparatory Program aims to equip students with the necessary English language and study skills for successful entry to and study in their chosen faculties and schools. This means that there is an emphasis on English for Academic Purposes (EAP) in the Preparatory Program as a whole, which recognizes that students need more than linguistic input in order to be successful in their studies. Students are required to develop the ability to analyze texts and information sources, as well as critical thinking skills and awareness of their own learning styles and preferences. The program is demanding and requires a full-time commitment on the part of the 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 complete learning portfolio (vocabulary journal, oral presentation, written outcomes and core homework). The courses are explained below but it is important to realize that, in addition to class work, students are expected to attend tutorials, make use of computerized learning facilities, do regular independent study, and produce assignments. Students will be evaluated continuously through achievement tests, classroom assessment, and assignments. Those students who have successfully completed the exit levels may sit the proficiency test and, if successful, be eligible to enter their freshman year.

Elementary Course

This course provides grounding in the English language and equips students with the necessary basic skills essential for work at higher levels. Students start to develop speaking, listening, reading, and writing skills and are required to produce assignments in these areas as well as mastering the Elementary level word list. Students also begin to develop some of the basic study skills needed for successful study in an English medium university.

Pre-Intermediate Course

This course offers a comprehensive introduction to a number of language points and follows on from the initial introduction at the Elementary level. Students are expected to both develop their awareness of language points and produce accurately through the skills. In order to prepare students for higher levels, skills development is graded according to a strict language framework. In addition, students are required to use both current and previous level lexis.

Intermediate Course

At Intermediate level students are primarily expected to develop fluency and accuracy in the language they were presented with at previous levels. Students focus in more depth on the academic skills they are required to have at entry into their freshman year. All the skills, speaking, listening, reading and writing are extended with particular emphasis on the productive skills. At the same time students are required to further develop their lexical knowledge to extend their means of expression through oral and written production.

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1. 4-year Department Students- A pass at (i) FCE/CAE/CPE or (ii) a score of at least 6.5 in IELTS, with a minimum of 5 scored in every section, or (iii) a score of 213 on TOEFL, with a minimum of 4 on the Test of Written English, allows students the right to enter directly into the departments (ETS students inclusive).

2. 2-year Vocational School Students- A pass at (i) FCE/CAE/CPE or (ii) a score of at least 6 in IELTS, with a minimum of 5 scored in every section, or (iii) a score of 173 on TOEFL, with a minimum of 4 on the Test of Written English, allows students the right to enter directly into the vocational schools.
Upper Intermediate Course

This course offers a new set of advanced language items and further consolidates language points from the previous levels. Students are expected to produce coherent and accurate language and lexis appropriate to a university setting, and be fluent in skills with specific reference to those required for academic success. They are required to demonstrate a good command of the productive skills with an ability to express themselves clearly and concisely together with an ability to read effectively a broad range of material, and to follow lectures and talks in English.

Pre-Faculty Course

This course aims to bring students’ language, skills and lexis up to the level required for entry into faculties and schools and to equip them with the ability to follow lectures successfully, to write to an acceptable academic standard, to read a wide range of academic literature of relevance to their chosen discipline, and to participate in seminars and discussions related to their field of study.

Tutorials

In addition to normal teaching hours, students are also given instruction individually or in small groups of 3-5 to further meet their needs.
The BUSEL Faculty Academic English Program (FAE) provides credit bearing courses in English for Academic Purposes to the faculties and the schools of the University from freshman year to graduate level.

**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 111 or ENG 101. Aut (A. L. Akkaş, J. Goggin, R. Wiggin)  

**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 (A. L. Akkaş, J. Goggin, R. Wiggin)  

**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. The following common literary essay forms will be studied in class: response, cause and effect, and argumentative essays.  
Credit units: 3 ECTS Credit Units: 4, Prerequisite: ENG 117. Spr (Staff)  

**ENG 201**  
**Essay Writing**  
This course aims to improve the essay composition skills that students develop in ENG 101 and ENG 102. The course will help students refine their theoretical and practical knowledge concerning effective academic essays and critical essays on literary texts.  
Credit units: 3 ECTS Credit Units: 5.  

**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 work. Coursework includes writing CVs and cover letters, adapting business documents to particular needs and audiences, conducting simulated job interviews, and completing other tasks related to communication in the business world. Students study authentic business communication problems and situations.  
Credit units: 2 ECTS Credit Units: 5, Prerequisite: ENG 102. Spr (Staff)  

**ENG 215**  
**Special Topics for English Development**  
This course is intended to help second-year students develop their English skills. The course will include topics of special interest integrated with the development of specific language skills.  
Credit units: 3 ECTS Credit Units:
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, writing, speaking, and discussing influential social and political philosophy texts. Credit units: 3 ECTS Credit Units: 5, Corequisite: PHIL 241. Aut (D. Butcher, E. A. Dunkley, I. Kayalar, M. Krugman, T. Kusmenoglu, J. Sands, B. Shumway Yilmaz, J. Spring, I. K. Steen)

ENG 242  Sophomore Academic English II
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 242, with a particular focus on reading, writing, speaking, and discussing influential social and political philosophy texts. Credit units: 3 ECTS Credit Units: 5, Prerequisite: ENG 241. Corequisite: PHIL 242. Spr (Staff)

ENG 294  English for Language Development
This is an Advanced Oral Presentation Skills course that aims to further develop student's oral presentation and discussion skills by focusing more on rhetorical and strategic devices used to impress and persuade the audience. The course focuses, which allows students to work individually and in groups to present different types of speeches, is supported with theoretical texts and sample speeches. Credit units: 3 ECTS Credit Units:

ENG 399  Advanced Writing and Library Research in Economics
The purpose of this course is to develop students' advanced academic reading, writing, and research skills. Students will develop their knowledge of writing style conventions within the field of economics, make extensive use of computer-based research techniques, and increase their ability to integrate a variety of sources into a coherent, and compelling written argument. This course will count as an elective for the Applied Economics requirement. Credit units: 3 ECTS Credit Units:

ENG 400  Technical and Professional Composition
This course for industrial 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:

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 (S. Birlik Karaca, M. Langbroek, F. C. Reece, E. Soyulu)

ENG 403  Business Communication
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 CVs and cover letters, adapting business documents to particular needs and audiences, conducting simulated job interviews, and completing other tasks related to communication in the business world. Students study authentic business communication problems and situations. Credit units: None ECTS Credit Units:

ENG 410  Communication for Business
This course is designed to assist non-business major students with skills they need in a professional communication context. Coursework focuses on designing and writing CVs and cover letters, adapting business documents to particular needs and specific audiences, practicing job search and interview processes, and completing other tasks related to communication skills that non-business majors need. Students study authentic business communication problems and situations. Credit units: 3 ECTS Credit Units:

ELS 101  English for Professional Purposes 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. Credit units: 4 ECTS Credit Units: 6. Aut (J. Asquith, H. Dabir, R. Dalgleish, S. Durmaz Guran, J. Goggin, S. Ifaner, S. Keşekeci, N. Kilincarslan, G. Quz, P. Poole, M. Sherwood, R. Şabi Koç, T. Thurston) Spr (J. Asquith, J. Goggin, S. Keşekeci, N. Kilincarslan, P. Poole, M. Sherwood)

ELS 102  English for Professional Purposes 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: 4 ECTS Credit Units: 6, Prerequisite: ELS 101. Aut (J. Asquith, H. Dabir, R. Dalgleish, J. Goggin, S. Keşekeci, P.
ELS 103  Advanced English I
This course aims to develop essential critical analysis and argumentation skills for further development in ELS 104, 203, 204. Credit units: 4 ECTS Credit Units: 5. Aut (J. Asquith, S. Durmaz Güran, S. Kesekci, G. Öz, M. Sherwood, R. Şabi Koç, T. Thurston)

ELS 104  Advanced English II
This course aims to provide students with a basic grounding in the problem-solving techniques and the language and analytical skills necessary for writing effective reports and making oral presentations. Credit units: 4 ECTS Credit Units: 5. Prerequisite: ELS 103. Aut (J. Asquith, S. Durmaz Güran, S. Kesekci)

ELS 111  English for Academic Purposes I
This course emphasizes the development of students' abilities to: read, understand and discuss high-level academic texts from a diversity of subjects; read academic texts and take effective notes from them for revision or research purposes; use suitable academic vocabulary; write summaries, critiques and short essays; and use accurate and appropriate English through regular and thorough feedback on spoken and written tasks. Credit units: 4 ECTS Credit Units: .

ELS 112  English for Academic Purposes II
This course emphasizes the development of students' abilities to: critically analyze primary texts from a variety of academic topics; write extended essays in suitable academic style; utilize the library and other resources for research; research a topic through the use of primary and secondary sources; prepare and write a term paper in a suitable academic format style; and use accurate and appropriate English through regular and thorough feedback on spoken and written tasks. Credit units: 4 ECTS Credit Units: .

ELS 203  Advanced English III
This course aims to develop the ability to research, analyze, and organize ideas in varied liberal arts contexts, leading to effective presentation of information, both orally and in writing. Credit units: 2 ECTS Credit Units: . Prerequisite: ELS 103 and ELS 104; ELS 104. Aut (S. Kesekci, N. Kılıncarslan, G. Öz) Spr (S. Kesekci, R. Şabi Koç)

ELS 204  Advanced English IV
This course aims to develop English language skills necessary to analyze and build written and oral arguments to defend a point of view and persuade an opposing audience. Credit units: 2 ECTS Credit Units: . Prerequisite: ELS 103 and ELS 104 and ELS 203; ELS 203. Aut (T. Thurston) Spr (S. Durmaz Güran, N. Kılıncarslan, P. Poole)

ELS 211  Professional Speaking and Oral Communication I
Study through practice of professional public speaking and communication techniques. Topics covered include audience analysis, presentation styles and techniques, effective audio and visual aids, perfecting delivery, and resolving potential difficulties. Credit units: 3 ECTS Credit Units: .

ELS 212  Professional Speaking and Oral Communication II
Study through practice of professional public speaking and communication techniques. Topics covered include forming perspectives, debating techniques, audience analysis, organization and delivery, non-verbal communication, techniques of persuasions and analysis. Credit units: 3 ECTS Credit Units: .

ELS 231  Business Research Skills I
The aim of the course is to provide students with the skills necessary for carrying out basic primary and secondary research in a business context. Credit units: 3 ECTS Credit Units: 6.

ELS 301  Advanced Communication Skills
This course aims to improve the oral and written argumentation skills that students develop in ELS and ELS 102. Students will work on developing higher levels of fluency and organised reasoning both in discussion and debate and written academic argument. Credit units: 3 ECTS Credit Units: 4. Aut (H. Dabir, R. Dalgleish, P. Poole, M. Sherwood, T. Thurston)

ELS 401  English Grammar
This course has two main aims: (1) to increase students' awareness of difficult areas in English grammar and (2) to consider the different ways in which grammar can be taught. The course is conducted in seminar style and much of the coursework involves students presenting mini grammar lessons to the rest of the group. Credit units: 3 ECTS Credit Units: . Aut (P. Poole)

ELS 402  English Composition
This course focuses on advanced expository writing skills for students in the Graduate School of Education. The course aims to develop students' writing and their understanding the principles of rhetoric underlying various
types of writing in English. The course places some emphasis on ‘creative writing’ as determined by the individual preferences of students. **Credit units: 3 ECTS Credit Units:**

**ELS 403  English for Philosophy of Education**
This course aims to provide students with the necessary academic skills to read, analyse, discuss and write about primary political theory texts. An emphasis is placed on close reading and evaluation of key passages and on the logical and coherent structuring of short written arguments. **Credit units: 3 ECTS Credit Units:**. **Aut (J. S. Alam, R. Turner) Spr (J. S. Alam)**

**ELS 404  English Language Support for Literature**
This course provides an introduction to different literary genres - the short story, the novella, the poem and the play. The course aims to develop students’ appreciation of quality writing in English and their consideration of different ways in which literature can be analyzed and taught. **Credit units: 3 ECTS Credit Units:**.

**ELS 405  Graduate Writing and Presentation Seminar**
ELS 405 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 xxx for class discussions. **Credit units: 3 ECTS Credit Units:**. **Aut (M. Krugman)**
VOCATIONAL PROGRAM IN TRANSLATION

T. Esmer (Chair), A. Güran, S. Katlan, S. Kunt-Akbas, Ş. Küçük-Dalbudak, G. Türmer.

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

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<tr>
<th>Autumn Semester</th>
<th>Credits / ECTS Credits</th>
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<tbody>
<tr>
<td>ETS 103 English Usage and Style I</td>
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<td>ETS 105 Discourse Analysis</td>
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<tr>
<td>ETS 107 Comparative Structure I</td>
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<tr>
<td>ETS 121 Written Translation I</td>
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<td>ETS 153 Lexicology</td>
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<tr>
<td>ETS 183 Societies and Culture</td>
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<td>GE 100 Orientation</td>
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<td>CTP 191 Introduction to Computers</td>
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<td>TURK 103 Turkish Usage and Style I</td>
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<th>Spring Semester</th>
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<tr>
<td>ETS 104 English Usage and Style II</td>
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<tr>
<td>ETS 108 Comparative Structure II</td>
<td>3 / 5</td>
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<tr>
<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 126 Consecutive Translation</td>
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<tr>
<td>ETS 160 Semiotics</td>
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<tr>
<td>TURK 104 Oral and Written Practice of Turkish II</td>
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SECOND YEAR

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<thead>
<tr>
<th>Autumn Semester</th>
<th>Credits / ECTS Credits</th>
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<tbody>
<tr>
<td>ETS 205 Advanced Discourse Analysis</td>
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<tr>
<td>ETS 207 Translation for Business I</td>
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<tr>
<td>ETS 211 Interpreting Skills I</td>
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</tr>
<tr>
<td>ETS 213 Translation for Dubbing and Subtitling I</td>
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<tr>
<td>ETS 221 Theories and Techniques of Translation</td>
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<tr>
<td>ETS 235 Translation for Social Sciences I</td>
<td>3 / 4</td>
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<tr>
<td>ETS 281 Translation for Technology I</td>
<td>2 / 3</td>
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<tr>
<td>HIST 201 History of Turkish Republic I</td>
<td>2 / 1</td>
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<tr>
<th>Spring Semester</th>
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<tbody>
<tr>
<td>ETS 208 Translation for Business II</td>
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<td>ETS 212 Interpreting Skills II</td>
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<td>ETS 214 Translation for Dubbing and Subtitling II</td>
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<td>ETS 222 Translation Project</td>
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<td>Course Code</td>
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<tr>
<td>ETS 224</td>
<td>Literary Translation</td>
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<td>ETS 236</td>
<td>Translation for Social Sciences II</td>
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<td>ETS 282</td>
<td>Translation for Technology II</td>
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<tr>
<td>HIST 202</td>
<td>History of Turkish Republic II</td>
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### COURSE DESCRIPTIONS

**ETS 020 **Translation for International Affairs and Politics I

The aim of this course is to provide a language environment where course participants will be familiarized with the terminology of international affairs and politics in order to enable them to perform accurate translations. At the end of the course participants will be able to translate subject-specific texts from English into Turkish using correct terminology, register and tone. Participants will be provided with authentic texts regarding different political systems, government organizations and international organizations and affairs. Credit units: 4 ECTS Credit Units: 8.

**ETS 021 **Translation for Economics

This course provides a language environment where students will be familiarized with the terminology of economics in order to enable them to perform accurate translations. At the end of the course they will be able to translate subject specific texts using correct terminology, register and tone. The students will be provided with authentic texts regarding different areas of economics. Credit units: 4 ECTS Credit Units: 8.

**ETS 022 **Written Translation for General Purposes

This course gives the students basic skills necessary for doing translations in various fields of life. During the course they will 1- Review their grammar and vocabulary knowledge in both Turkish and English 2- Learn basic techniques to overcome the textual problems resulting from syntactic, semantic and cultural differences between these languages 3- Produce texts in the target language which are both adequate and acceptable. Credit units: 3 ECTS Credit Units: 6.

**ETS 023 **Medical Translation

The course will start by comparing and analyzing the source language and target language structurally, syntactically, semantically and lexically at a sentence level, first with authentic sentences chosen from medical texts. Then the students will be provided with authentic texts regarding different areas of medicine so that they can apply the approach they have acquired at sentence level to text level. Credit units: 4 ECTS Credit Units: 8.

**ETS 024 **Language of the News and Translation for Media

The course will start by brainstorming on current affairs. After looking at some widely-used institutional terms, students will be familiarized with the language of accident and disaster news, ceremonies, awards contests, sports events, weather reports, statements, editorials, articles, reviews, cartoons, comic strips and subject-specific and jargon rich news. Language analysis will be followed by translation of the texts. Credit units: 3 ECTS Credit Units: 6.

**ETS 025 **Translation for International Affairs and Politics 2

The course is designed to teach students basic translation skills in translating subject-specific texts from Turkish into English. The course involves analysis of authentic texts in Turkish for comprehension and production of these texts in English. At the end of the course, participants will have learned and developed strategies to deal with problems they are likely to meet when they are confronted with the task of translation. Credit units: 4 ECTS Credit Units: 8.

**ETS 103 **English Usage and Style I

This course shall deal with various text types on several topics, with an emphasis on developing students’ ability to comprehend and write texts written with different rhetoric and registers. Credit units: 2 ECTS Credit Units: 3. Aut (A. Güran)

**ETS 104 **English Usage and Style II

This course shall cover reading for academic purposes as well as academic writing with a focus on getting the main idea of articles, library research, and scanning sources. Credit units: 2 ECTS Credit Units: 3. Aut (A. Güran) Spr (A. Güran)

**ETS 105 **Discourse Analysis

The aim of this course is to teach the basic concepts of semantics, the fundamental movements of philosophy and psychology, and discourse theory. Students study various texts of social sciences and literature. Credit units: 3 ECTS Credit Units: 4. Aut (A. Güran)

**ETS 107 **Comparative Structure I

The objective of this course is to compare and contrast Turkish and English within the framework of translation to understand the influence of one language on the other in terms of grammar and usage. This course shall provide the necessary basic skills, techniques and strategies involved in two-way translation. Credit units: 3 ECTS Credit Units: 5. Aut (G. Tümer)
ETS 108 Comparative Structure II
The objective of this course is to analyse complex structures of the language and to enable the students to perform translation activities via emphasis on usage and style regarding the structural aspect of English. Credit units: 3 ECTS Credit Units: 5. Aut (G. Tümer) Spr (G. Tümer)

ETS 121 Written Translation I
This course shall focus on the translation of written texts from English into Turkish within the framework of different text types. Class discussions will increase students' awareness of the language structure, style, register, cultural context as well as the audience of the chosen text types. Credit units: 3 ECTS Credit Units: 5. Aut (S. Katlan)

ETS 122 Written Translation II
This course shall focus on the translation of written texts from Turkish into English within the framework of different text types. Class discussions will increase students' awareness of the language structure, style, register, cultural context as well as the audience of the chosen text types. Credit units: 3 ECTS Credit Units: 5. Aut (Ş. Küçükal-Dalbukad) Spr (Ş. Küçükal-Dalbukad)

ETS 124 Written Media Translation
This course shall focus on the translation of news items, articles, editorials, and reviews for the written media. The translation of written media materials for oral presentation, e.g. news and feature programs for the radio shall also be included in this course. The translation of these materials shall be from English into Turkish and from Turkish into English. Credit units: 3 ECTS Credit Units: 5. Aut (S. Katlan)

ETS 126 Consecutive Translation
This course aims at enabling students to acquire mastery in sight translation and consecutive translation. The techniques of effective listening, note-taking and memory development are introduced to students. Speeches on various topics are dealt with for the practice of sight translation and consecutive translation. Credit units: 3 ECTS Credit Units: 5. Spr (S. Kunt-Akbas)

ETS 131 Business Translation I
This course will focus on translation of written business communication. It will also include translating different types of texts from English into Turkish and from Turkish into English on such topics as marketing and promotion, production and employment and budget management (for BMS students). Credit units: 3 ECTS Credit Units: 5. Aut (R. Şabi Koç)

ETS 132 Business Translation II
This course will focus on translation of different types of texts about international trade, importing, exporting and customs. It will also include authentic materials like tenders and contracts (for BMS students). Credit units: 3 ECTS Credit Units: 5. Spr (R. Şabi Koç)

ETS 153 Lexicology
Although translation is never a word-for-word transfer process, words are the building blocks of language and translation. Thus, vocabulary is one of the major tools in both the comprehension and reformulation phases of translation. So as to facilitate the translation process, the translator has to have a good amount of vocabulary stored in their active memory, besides having a good command of the dictionary. This course aims at enabling translation students to have a comprehensive amount of vocabulary, to recall words readily, during interpreting especially, and to use the dictionary efficiently and accurately. Credit units: 2 ECTS Credit Units: 3. Aut (Ş. Küçükal-Dalbukad)

ETS 160 Semiotics
This course introduces students to the concept of signs as used by any organism capable of learning from experience, to language as a systematised set of conventions and therefore to the concepts of paradigm and language and of syntagm and parole and to the interrelation between language, thought and culture within the framework of the Whorfian hypothesis. A link is established between semiotics and translation throughout the course, emphasizing the importance of awareness of the semiotic concepts for a translator. Credit units: 2 ECTS Credit Units: 4. Aut (S. Katlan) Spr (S. Katlan)

ETS 183 Societies and Culture
This course aims to familiarise students with the language of social sciences through comparing and contrasting attitudes, beliefs, traditions and ways of behaving related to family, class and status, education, health and welfare, religions, economics, government, and law and order. This course shall also examine the concept of culture and evaluate the effect of external influences on national cultures and behaviour. Credit units: 3 ECTS Credit Units: 5. Aut (Ş. Küçükal-Dalbukad)

ETS 205 Advanced Discourse Analysis
The aim of this course is to enable students use their previous knowledge of discourse theory. In this course students analyse poems, extracts from plays and novels, short stories and argumentative texts and translate these texts under the light of their analyses. Credit units: 3 ECTS Credit Units: 5. Aut (A. Güran) Spr (Staff)

ETS 207 Translation for Business I
The objective of this course is to enable students to acquire written translation knowledge and skills required in the fields of business and tourism. This course shall include the reading and translation of a wide variety of
business letters (i.e., enquiries, orders, complaints, letters of application) and texts related to topics on business (i.e., foreign trade, insurance, customs and procedures, bills of lading). Students shall also be familiarised with legal documents so as to enable them to translate such documents (i.e., contracts, specifications, public notary documents, invitations to bids) used in the business world. Credit units: 3 ECTS Credit Units: 4. Aut (S. Katlan) Spr (Staff)

ETS 208 Translation for Business II
This course focuses on equipping the students with the terminology of banking and finance and covers the reading and translation of materials related to fields such as banking operations and the stock market. In addition, this course aims at raising the students’ awareness and understanding of terminology in the field of tourism and hotel management, focusing on practice in the translation of materials such as tourism geography, tourism marketing, and hospitality. Credit units: 3 ECTS Credit Units: 4.

ETS 211 Interpreting Skills I
This course aims at combining aural comprehension of English speeches with the ability to translate the gist of what is heard into Turkish. Speeches on various topics shall be dealt with to heighten the students’ awareness of register and intonation in oral translation and to expand their knowledge of terminology. Credit units: 3 ECTS Credit Units: 4. Aut (Staff) Spr (Staff)

ETS 212 Interpreting Skills II
This course shall follow on from Interpreting Skills I and further develop the topics and the focus of the preceding course. An introduction to interpreting texts from Turkish into English is made. Credit units: 3 ECTS Credit Units: 4. Spr (Staff)

ETS 213 Translation for Dubbing and Subtitling I
This course concentrates on subtitle translation for documentaries, feature films and TV programs. An introduction on the basics of synchronized translation shall also be given. Credit units: 3 ECTS Credit Units: 4. Aut (Ş. Kıcık-Dalbudak) Spr (Staff)

ETS 214 Translation for Dubbing and Subtitling II
This course concentrates on synchronized translation for dubbing purposes. Students shall work on authentic materials such as feature films, documentaries, and TV programs. Credit units: 3 ECTS Credit Units: 4. Spr (Ş. Kıcık-Dalbudak)

ETS 221 Theories and Techniques of Translation
The objective of this course is to explore the nature of problems raised in translation both from Turkish into English and English into Turkish. Various theories concerning the product and process of translation shall be introduced and students shall engage in the critical analysis of translations. Credit units: 3 ECTS Credit Units: 5. Aut (T. Esmer) Spr (Staff)

ETS 222 Translation Project
This project will consist of a large-scale piece of translation from English into Turkish with an intention to combine all skills learned and practiced during the program. Students will also be required to analyse their project experience in an extended piece of writing. Credit units: 3 ECTS Credit Units: 4. Spr (S. Kunt-Akıbash)

ETS 224 Literary Translation
This course shall consist of written translation from English into Turkish of literary materials including literary articles, poems, short stories, screenplays and plays. Credit units: 3 ECTS Credit Units: 4. Spr (Staff)

ETS 235 Translation for Social Sciences I
This course aims at developing students’ awareness and understanding of the terminology in the field of social sciences and concentrates on practice in the translation of topics such as international politics, international organisations, history, music, art, theatre, etc. Credit units: 3 ECTS Credit Units: 5. Spr (G. Tümer) Spr (Staff)

ETS 236 Translation for Social Sciences II
As a successive course to Translation for Social Sciences I, this course shall further develop the topics and the focus. The topics to be covered include sociology, psychology, anthropology, geography, archaeology, philosophy, etc. Credit units: 3 ECTS Credit Units: 5. Spr (T. Esmer)

ETS 281 Translation for Technology I
The aim of this course is to develop students’ practical knowledge and understanding in different areas of science and technology, to equip them with terminology used in different areas for recognition and/or production and to enable them to translate in accordance with the structure, terminology, register and tone. The topics included are agriculture, environment, geology, construction, etc. Credit units: 2 ECTS Credit Units: 3. Aut (G. Tümer) Spr (Staff)
ETS 282  Translation for Technology II
Following on from Translation for Technology I, this course further develops the topics and the focus. The topics included are architecture, pharmacology, medicine, engineering, telecommunication, etc. *Credit units: 2 ECTS*
*Credit Units: 3. Spr (Staff)*
The Vocational School of Computer Technology and Office Management offers two-year programs in the following areas:

- Accounting
- Commerce and Administration
- Computer Technology and Programming
- Bureau Management and Secretarial Training

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.

Name Aykanat, Instructor
B.S., Mathematics, Middle East Technical University, 1984. Business mathematics, principles of accounting, management information systems.

Tolga Baycan, Instructor

İnci Nimet Durubal, Instructor
B.S., Management, Middle East Technical University, 1995. Economics, management, banking and insurance, finance.

Ahmet Durukal, Instructor

Hayrúnis Erdem, Instructor
Diploma, Kings College, General Secretarial School, USA, 1980. Advanced word processing, reports and audio transcription, secretarial subjects.

Nermin Fenmen, Instructor
M.S., Chemical Engineering, Middle East Technical University, 1982. Mathematical modeling of engineering applications, computer simulation, algorithms, file systems, management information systems.

Meltem Ferendeci-Özgödek, Instructor
M.A., Management, Hacettepe University, 1993. Management, marketing, consumer behavior, human resources management.

Eser Findik, Assistant Professor
Ph.D., Library Information Sciences, Hacettepe University, 1985. Etiquette and modern business manners, business writing techniques in Turkish.
Sezer Kadayıçılar, Instructor

Reyyan Ödemiş, Instructor
B.S., Political Science, Ankara University, 1972. Organizational behavior, principles of management, presentation techniques on the job training.

Halil Özmen, Instructor
M.S., Computer Engineering, Middle East Technical University, 1981. Data structures, algorithms, computer architecture, web based software development.

Murat Özsoy, Instructor
M.S., Computer Science and Technology, Linkoping Institute of Technology, Sweden, 1986. Introduction to computers, computer applications for business.

Lori Russell-Dağ, Instructor
B.S., Health Information Science, University of Victoria, Canada, 1999. Business applications, web site design and applications.

Selda Sevin, Instructor

İpek Sözen, Instructor
M.S., Computer Engineering, Middle East Technical University, 1989. Programming languages, data structures, information systems.

Sibel Ügurlubilek, Instructor

Gülşen Ungan, Instructor
M.S., Hacettepe University, 1974. Keyboarding, applied word processing graduation project.

Hülya Yavuz, Assistant Professor
Ph.D., Educational Sciences, Middle East Technical University, 1991. Computer aided education, curriculum development, mathematics education.

Füsun Yüreğin, Instructor
M.S., Computer Engineering, Middle East Technical University, 1993. Database management systems, object oriented system analysis and design, spatial indexing methods, systems development.

Katalin Zaim, Assistant Professor
Ph.D., Environmental Sciences, Boğaziçi University, 1996. Microeconomics, macroeconomics, business statistics, graduation project, finance.

VOCATIONAL SPECIALISTS

Selen Aktaş

Seren İlhan Gürler

Pelin Kalkanoglu

Ceylan Okuyucu

Aslı Ömerbeyoğlu
PART-TIME ACADEMIC STAFF

Erkut Bil, B.S., Office Management in Tourism, Bilkent University, 1999.
Yalçın Gülerman, B.S., Economics, Middle East Technical University, 1979.
ACCOUNTING

N. Fenmen (Chair), A. Durukal, S. Kadayırfılar, S. Sevin.

Vocational Specialists: S. Aktas, S. İlhançeveci, 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 45 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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<tr>
<td>GE 100</td>
<td>Orientation</td>
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<tr>
<td>CTP 193</td>
<td>Computer 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>ELS 101</td>
<td>English for Professional Purposes I</td>
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<tr>
<td>ELS 103</td>
<td>Advanced English I</td>
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<td>TURK 101</td>
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<tbody>
<tr>
<td>CAA 112</td>
<td>Cost Accounting</td>
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<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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<tr>
<td>ELS 102</td>
<td>English for Professional Purposes II</td>
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<td>ELS 104</td>
<td>Advanced English II</td>
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<td>TURK 102</td>
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<th>Autumn Semester</th>
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<tbody>
<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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<td>CAA 245</td>
<td>Financial Regulations</td>
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<tr>
<td>CAD 126</td>
<td>Statistics</td>
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<tr>
<td>CAD 231</td>
<td>Macroeconomics</td>
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<tr>
<td>ELS 203</td>
<td>Advanced English III</td>
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<tr>
<td>HIST 201</td>
<td>History of Turkish Republic I</td>
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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>CAA 248</td>
<td>Legal Aspects of Business</td>
</tr>
</tbody>
</table>
ELS 204 Advanced English IV ................................................................. 2 / -
HIST 202 History of Turkish Republic II ................................................. 2 / 1

COURSE DESCRIPTIONS

CAA 111 Financial Accounting
Basic theory and structure of elementary accounting, with emphasis on the adjusting and closing processes, financial statements, cash flow, receivables, payables, inventories. Repetitive transactions, special journals, worksheets, cash and cash control, bank reconciliation and pricing merchandise. Hands-on experience with popular accounting package software in the laboratory. Credit units: 4 ECTS Credit Units: 8. Aut (S. Sevin) Spr (S. Sevin)

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 (CIFO, FIFO weighted average). Hands-on experience with popular accounting package software in the laboratory. Credit units: 4 ECTS Credit Units: 8, Prerequisite: CAA 111. Spr (S. Sevin)

CAA 132 Management Science
General overview of quantitative techniques and mathematical models within the context of decision making, planning and controlling. Linear programming, network models, decision analysis, forecasting, waiting line analysis, project management. Credit units: 4 ECTS Credit Units: 5.

CAA 200 Industrial Training
This non-credit course provides for the evaluation of the student’s 45-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: None ECTS Credit Units: , Prerequisite: CAA 111. Aut (S. Sevin)

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: 4 ECTS Credit Units: 6, Prerequisite: CAA 112. Aut (Y. Gülerman)

CAA 212 Advanced Accounting Applications
Advanced financial, cost, and managerial accounting applications with spreadsheet and accounting software packages. Credit units: 3 ECTS Credit Units: 6, Prerequisite: CAA 211 or CAA 223. Spr (Y. Gülerman)

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: 4 ECTS Credit Units: 6, Prerequisite: CTP 193 or CTP 192. Aut (S. Kadayıfçılar) Spr (S. Kadayıfçılar)

CAA 225 Statistics

CAA 226 Elements of Finance Analysis

CAA 236 International Finance
The international environment offers many opportunities and challenges to businesses. In this course, topics are treated in a realistic international context. The impact of fluctuating exchange rates, changes in international markets, news of political and economic changes, managing international account receivables etc. are discussed in this course to help the student understand the management of assets and financing in an open environment. Credit units: 3 ECTS Credit Units: 4. Aut (İ. N. Durubal)
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. Aut (C. Aydoğmuş)

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. Aut (A. Padır)

CAA 246  Principles of Banking and Insurance
of funds. International banking services, other basic banking services. Principles of insurance. Credit units: 3
ECTS Credit Units: 4. Spr (İ. N. Durubal)

CAA 248  Legal Aspects of Business
Constitutional law, administration. Law of obligations. Law of persons. Legal entities. Partnerships. Checks,
Units: 4. Spr (G. D. Özgödek)

CAA 292  Database Applications for Business
The course introduces database management concepts with hands-on experience in database design and
database applications using popular software packages. The course covers the analysis of the situation, identi-
fying the requirements, creating the tables, queries and reports to meet these requirements. Lectures take place
in the computer laboratory. Credit units: 3 ECTS Credit Units: 4. Spr (N. Fenmen)
BUREAU MANAGEMENT AND SECRETERIAL TRAINING

E. Findik (Chair), N. Aykanat, H. Erdem, R. Odemis, G. Ungan, K. Zaim.

Vocational Specialists: P. Kalkanoğlu.

Part-time: E. Bil, M. E. Savun.

The curriculum of the vocational program in Office Management and Secretarial Training 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 always been 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 Office Management and Secretarial Training allows the student to develop skills in computers 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.

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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>Orientation</td>
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<td>CTP 191</td>
<td>Introduction to Computers</td>
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<td>BM 162</td>
<td>Office Machines</td>
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<td>BM 172</td>
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<td>BM 182</td>
<td>Principles of Accounting</td>
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<td>BM 272</td>
<td>Business Writing Techniques in Turkish</td>
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<tr>
<td>BM 281</td>
<td>Organizational Behavior</td>
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<td>CTP 291</td>
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ELS 203  Advanced English III .................................................. 2 / -
ETS 131  Business Translation I ................................................. 3 / 6
Elective ................................................................. 3 / 6

Spring Semester  Credits / ECTS Credits
BM 202  Reports and Audio Transcription ..................................... 3 / 5
BM 262  Principles of Management .............................................. 3 / 5
BM 271  Etiquette and Modern Business Manners ......................... 3 / 4
BM 282  Graduation Project ..................................................... 2 / 4
CTP 292  Computer Applications for Business II .......................... 4 / 5
ELS 204  Advanced English IV .................................................. 2 / -
ETS 132  Business Translation II ................................................. 3 / 6
Elective ................................................................. 3 / 6

ELECTIVE COURSES
BM 185  Management Information Systems .................................. 3 / 6
BM 186  Business Statistics ...................................................... 3 / 6
BM 187  Macroeconomics ........................................................ 3 / 6
BM 188  Presentation Techniques ................................................. 3 / 6
BM 189  Principles of Marketing ................................................ 3 / 6
BM 190  Introduction to Business ................................................ 3 / 6
BM 193  Introduction to Finance ................................................ 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 make 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. (Total course hours: 36 hours and per week depends on the department)  Credit units: 2 ECTS Credit Units: 2.  Aut (E. Bil, M. E. Savun, G. Ungan)  Spr (E. Bil, M. E. Savun, G. Ungan)

BM 101  Keyboarding
At the end of this course, the student will be able to (touch) type (without visual assistance) on a standard 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.  Aut (G. Ungan)

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. Prerequisite: BM 101 and CTP 191.  Spr (G. Ungan)

BM 161  Office Administration and Management
This course is an information source emphasizing the administrative and secretarial skills necessary for success in today's highly technological offices. It includes the major skills, attitudes, concepts and knowledge needed by administrative assistants. With the help of this course the students are preparing for a profession in which there are many opportunities to develop initiative, judgment and knowledge that will lead to opportunities for responsible positions in the business world.  Credit units: 3 ECTS Credit Units: 5.  Aut (M. E. Savun)

BM 162  Office Machines
The course provides the student with a detailed view of the information cycle being changed by modern technology. The course is conducted in a fully automated office laboratory which provides opportunities for the students to gain practice on equipment such as: facsimile, photocopier, duplicating machine, electronic calculator, telephone systems and teleconferencing.  Credit units: 3 ECTS Credit Units: 3.  Spr (M. E. Savun)

BM 171  Business Mathematics
Students gain familiarity with the basic concept of Business Mathematics such as conversion of values, computation of averages, interpreting ratios, trend analysis, charts, graphs, calculation of interests, loan amortization,
present and future value, and rate of return. Also, the course helps students to learn how to define a problem, how to break it down into logical and simple components, and explain conclusions with clarity. Credit units: 3 ECTS Credit Units: 5. Aut (N. Aykanat)

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. Spr (M. E. Savun)

BM 182  Principles of Accounting
The aim of this course is to introduce students to the basic concepts of accounting. Topics such as the balance sheet, income statement and financial statement analysis are covered. Also the students have the opportunity to learn, and to use in practice the terms of revenue, monetary assets, cost of sales, inventories, amortization, sources of capital and owners equity. Credit units: 3 ECTS Credit Units: 4. Spr (M. E. Savun)

BM 185  Management Information Systems
The objective of the course is to introduce the students the basic concepts of Management Information Systems, structure of Management Information Systems and computer system resources; such as hardware, software and databases. Credit units: 3 ECTS Credit Units: 6. Aut (N. Aykanat) Spr (N. Aykanat)

BM 186  Business Statistics
The objective of the course is to introduce students to the basic concepts of statistics with some application to business. More specifically, the course first explains the methods for describing data and assessing the variability of data. The second stage covers the issues of sampling distributions, hypothesis testing, multiple regression analysis and analysis of variance. Credit units: 3 ECTS Credit Units: 6.

BM 187  Macroeconomics
The course of Macroeconomics introduce the students to the basic theory of gross domestic product. The students gain familiarity with the accounts included in the GDP computation, the disadvantages of GDP and the difference between real and nominal GDPs. Furthermore, the students also learn about the concept of business cycle, types of unemployment, the concept and type of inflation. The national economic is also explained through aggregated demand and supply, the potential fiscal policies used to regulate the national market, the type of national dept effecting the national economy. Finally, the concept of money, money creation and monetary policies are introduced. Credit units: 3 ECTS Credit Units: 6.

BM 188  Presentation Techniques
The main purpose of this lecture is to teach the effective ways of presentation. Planning the presentation, analyzing the audience, setting goals, organizing, preparing and using visual aids, delivering the presentation, answering questions, following up will cover the main frame of the lecture. Credit units: 3 ECTS Credit Units: 6. Spr (R. Ödemiş)

BM 189  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: 6.

BM 190  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: 6.

BM 193  Introduction to Finance
The course objective is to introduce students to the basic concepts of finance. The introductory topics covered in the course are the concept of valuation and valuation of a firm’s stock. In the second phase, the principles of capital investment, capital budgeting and evaluation of risky investments, required returns for projects are discussed. Finally, the requirements returns for companies, divisions, acquisitions and some concepts of capital structure are presented. Credit units: 3 ECTS Credit Units: 6.

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 the 30 working days that constitute the “on the job training” period, students will be supervised by the department. The program will be conducted during the summer months of the first year. Credit units: None ECTS Credit Units: . Aut (R. Ödemiş) Spr (R. Ödemiş)
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 have the students get a feel for on-the-job activities, they will be exposed to keyboarding problems related to general accounting and 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, Prerequisite: BM 101. Aut (H. Erdem) Spr (H. Erdem)*

BM 202  Reports and Audio Transcription
This course focuses on keying from prearranged and unarranged texts, special emphasis will be put on Unbound, Topbound, and Leftbound report typing. To improve the speed and accuracy the reports will be typed in timed and untiamed situations. The other very important feature of this course is to teach how to use “coolpro exe” program and transcribe the recorded materials. *Credit units: 3 ECTS Credit Units: 5, Prerequisite: BM 102. Aut (H. Erdem) Spr (H. Erdem)*

BM 261  Microeconomics
The course is designed to provide a provide a solid foundation of economic understanding for use in managerial decision making. The principal topics covered in this class are: economic optimization, demand analysis and demand estimation, forecasting, production, cost analysis and cost estimation, market structure, decision making under uncertainty, and capital budgeting. Also quantitative tools are introduced to assist the students in gaining greater insight into the methods of economic analysis, as well as to facilitate the practical use of economics in decision-making situations. *Credit units: 3 ECTS Credit Units: 5. Aut (˙I. N. Durubal)*

BM 262  Principles of Management
This course aims to provide the most professional office leader with basic administrative skills in office management. For this purpose, the managerial functions such as planning, decision-making, organizing, leading, controlling, systems design, change and development are studied. *Credit units: 3 ECTS Credit Units: 5. Spr (M. E. Savun)*

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 include: everyday courtesies, telephone manners, dining in restaurants, public speaking, seeking a job, introductions, business correspondence, general office etiquette, business entertaining, gift giving, dress and travel manners. The course will be conducted in Turkish. *Credit units: 3 ECTS Credit Units: 4. Spr (E. Fındık)*

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. Aut (E. Fındık)*

BM 281  Organizational Behavior
This course firstly aims to develop some specific analytical ability to think and to solve organizational behavior problems. Secondly, it provides insights into personal and interpersonal relationships: it aims to change the student from an individual into an efficient group member in an organization. Therefore, it includes such topics as: Organization system and environment, understanding individual behavior, communication, stress management, decision making, problem solving and group dynamics. *Credit units: 3 ECTS Credit Units: 5. Aut (Rødemis)*

BM 282  Graduation Project
The objective of this course is to provide the students with the opportunity to combine their theoretical knowledge and experience in a project. This will be achieved through group work (maximum 10 students per group). Each group is supervised by an instructor. Each group is required to select a specific topic related to the subjects covered during their program, and is required to prepare a written project report which will be presented in the office laboratory. The presentation is recorded on video for general discussion. *Credit units: 2 ECTS Credit Units: 4. Aut (H. Erdem) Spr (G. Ungan)*
COMMERCe AND ADMINISTRATION

N. Fenmen (Acting Chair), İ. N. Durubal, A. Durukal, M. Ferendeci-Özgödek, S. Kadayıçıl, S. Sevin.

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 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 45-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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</thead>
<tbody>
<tr>
<td>CAD 111</td>
<td>Principles of Management</td>
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<tr>
<td>CAD 113</td>
<td>Microeconomics</td>
</tr>
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<td>CAD 125</td>
<td>Business Mathematics</td>
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<tr>
<td>GE 100</td>
<td>Orientation</td>
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<tr>
<td>CTP 193</td>
<td>Computer Applications</td>
</tr>
<tr>
<td>ELS 101</td>
<td>English for Professional Purposes I</td>
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<tr>
<td>ELS 103</td>
<td>Advanced English I</td>
</tr>
<tr>
<td>TURK 101</td>
<td>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>CAD 114</td>
<td>Principles of Marketing</td>
</tr>
<tr>
<td>CAD 126</td>
<td>Statistics</td>
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<tr>
<td>CAD 128</td>
<td>Principles of Financial Accounting</td>
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<tr>
<td>CAD 231</td>
<td>Macroeconomics</td>
</tr>
<tr>
<td>ELS 102</td>
<td>English for Professional Purposes II</td>
</tr>
<tr>
<td>ELS 104</td>
<td>Advanced English II</td>
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<tr>
<td>TURK 102</td>
<td>Turkish II</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>CAD 200</td>
<td>Industrial Training</td>
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<tr>
<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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<td>CAA 223</td>
<td>Advanced Spreadsheet Applications</td>
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<td>ELS 203</td>
<td>Advanced English III</td>
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<td>HIST 201</td>
<td>History of Turkish Republic I</td>
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<tr>
<th>Spring Semester</th>
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<tbody>
<tr>
<td>CAD 212</td>
<td>Production Management</td>
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<tr>
<td>CAD 216</td>
<td>Human Resources Management</td>
</tr>
</tbody>
</table>
COURSE DESCRIPTIONS

**CAD 111 Principles of Management**
*Credit units: 3 ECTS Credit Units: 4. Aut (N. Durubal)*

**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: 5. Aut (N. Durubal) Spr (N. Durubal)*

**CAD 114 Principles of Marketing**
*Credit units: 3 ECTS Credit Units: 4, Prerequisite: CAD 111. Spr (M. Ferendeci-Özgöde)*

**CAD 125 Business Mathematics**
*Credit units: 4 ECTS Credit Units: 6. Aut (A. Durukal) Spr (A. Durukal)*

**CAD 126 Statistics**
*Credit units: 3 ECTS Credit Units: 5, Prerequisite: CAD 125. Aut (S. Kadayıfcılar) Spr (S. Kadayıfcılar)*

**CAD 128 Principles of Financial Accounting**
*Credit units: 3 ECTS Credit Units: 5. Spr (S. Sevin)*

**CAD 200 Industrial Training**
This non-credit course provides for the evaluation of the 45-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: None ECTS Credit Units: , Prerequisite: CAD 111. Aut (M. Ferendeci-Özgöde)*

**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, workdesign, communication, change and development) Credit units: 3 ECTS Credit Units: 5, Prerequisite: CAD 111. Aut (M. Ferendeci-Özgöde)*

**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: 4 ECTS Credit Units: 5, Prerequisite: CAD 125. Spr (S. Kadayıfcılar)*

**CAD 216 Human Resources Management**
*Credit units: 3 ECTS Credit Units: 6, Prerequisite: CAD 211. Spr (M. Ferendeci-Özgöde)*
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. Personal selling, sales management and global marketing.  Credit units: 3 ECTS Credit Units: 6, Prerequisite: CAD 114 or CAD 213. Aut (M. Ferendeci-Özgödek)

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: 4 ECTS Credit Units: 6, Prerequisite: CAD 111 and CAD 125. Aut (A. Durukal) Spr (A. Durukal)

CAD 229  Principles of Managerial Accounting

CAD 231  Macroeconomics
Analysis of concepts such as gross national product, inflation, employment, national depth, 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. Aut (A. Durukal) Spr (A. Durukal)

CAD 233  International Marketing
Key factors that lead to globalization, world trade and regional trade agreements. Structure of multinational company. Planning for international markets via alternative entry modes; exports, licensing, joint ventures, contractual agreements, manufacturing, franchising, investment and developing international product, pricing, promotion strategies. Economic, political and cultural factors affecting international marketing. International marketing research. Organization and control in International marketing. Marketing planning for International Business.  Credit units: 3 ECTS Credit Units: 5, Prerequisite: CAD 111.

CAD 234  Consumer Behavior
Introduction to consumer behavior: Marketers’ and consumers’ views, the consumer marketplace. Market segmentation. The consumer as an individual: Consumer motivation, consumer perception, consumer learning and consumer attitudes. External influences on consumer behavior: Cultural influences, social and situational influences. Consumer decision making process.  Credit units: 3 ECTS Credit Units: 5, Prerequisite: CAD 114. Spr (M. Ferendeci-Özgödek)

CAD 235  Influence and Negotiation
The aim of the course is to initiate and enhance influencing and negotiating abilities of students in their future careers. The course includes topics such as weapons of influence, reciprocation, commitment and consistency, social proof. The steps for effective negotiation are emphasized. The course mainly involves simulation of cases.  Credit units: 3 ECTS Credit Units: 5.
COMPUTER TECHNOLOGY AND PROGRAMMING


Vocational Specialists: C. Okuyucu.

Computer Technology and Programming offers a two-year program comprising the foundations of a concise computer science education through its carefully designed curriculum covering contemporary computing topics; ultimately earning 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. Students who complete the program will have a thorough knowledge and experience in structured and object oriented methodologies in Windows and UNIX environments. Programming languages like C, C++, Java, visual programming tools, relational database management systems, and Internet programming concepts are the major topics covered during the program. Students are required to design and implement various programming projects in partial fulfillment of the curriculum.

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. 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 revised 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 preparing them to continue their academic studies leading to a BS degree in Computer Science.

The compulsory two month industrial training has proved to be a valuable interaction between the industry and the department, as well as good recruitment opportunities for the students.

CURRICULUM

FIRST YEAR

Autumn Semester

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<tr>
<th>Course</th>
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<tbody>
<tr>
<td>CTP 101</td>
<td>Introduction to Programming</td>
<td>6 / 10</td>
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<tr>
<td>CTP 105</td>
<td>Programming Environment</td>
<td>4 / 4</td>
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<tr>
<td>CTP 107</td>
<td>Discrete Mathematics</td>
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<td>GE 100</td>
<td>Orientation</td>
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<td>ELS 101</td>
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<td>ELS 103</td>
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Spring Semester

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<tbody>
<tr>
<td>CTP 102</td>
<td>Elementary Data Structures</td>
<td>6 / 10</td>
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<tr>
<td>CTP 106</td>
<td>Business Applications</td>
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</tr>
<tr>
<td>CTP 108</td>
<td>Computer Programming for Business</td>
<td>5 / 5</td>
</tr>
<tr>
<td>CTP 118</td>
<td>Computer Organization</td>
<td>3 / 5</td>
</tr>
<tr>
<td>ELS 102</td>
<td>English for Professional Purposes II</td>
<td>4 / 6</td>
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<td>ELS 104</td>
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</table>

SECOND YEAR

Autumn Semester

<table>
<thead>
<tr>
<th>Course</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>
<td>5 / 8</td>
</tr>
<tr>
<td>CTP 203</td>
<td>Operating Systems</td>
<td>5 / 6</td>
</tr>
<tr>
<td>CTP 209</td>
<td>Systems Development</td>
<td>3 / 3</td>
</tr>
</tbody>
</table>
**COURSE DESCRIPTIONS**

**CTP 101 Introduction to Programming**
An introduction to programming using problem solving strategies. Techniques used to design and represent algorithms. Structured programming technique will be introduced along with the usage of C language. 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: 6 ECTS Credit Units: 10. Aut (H. Özsoy) Spr (R. Ayfer)

**CTP 102 Elementary Data Structures**

**CTP 105 Programming Environment**
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: 4. Aut (L. Russell-Dağ) Spr (L. Russell-Dağ)

**CTP 106 Business Applications**
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, HTML, cascading style sheets, principles of web page design, JavaScript basics, and the implementation of web pages using web authoring tools. Credit units: 4 ECTS Credit Units: 4. (M. Özsoy) Spr (L. Russell-Dağ)

**CTP 107 Discrete Mathematics**

**CTP 108 Computer Programming for Business**
Introduction to developing business application programs using a visual programming language as a tool. Programming fundamentals, effective GUI styles, access to databases will be taught using a lecture/lab combination during which students will experience hands-on programming. (Four hours lecture, three hours lab.) Credit units: 5 ECTS Credit Units: 5. Prerequisite: CTP 101. Aut (S. Uğurlubilek) Spr (T. Baycan)

**CTP 118 Computer Organization**

**CTP 191 Introduction to Computers**
Introduction to the basic structure of a computer. Windows basics and applications. Basic file and directory operations in windows environment. Fundamentals of word processing; preparing well-designed documents and changing their appearance. Ethics of network usage. Introduction to the Internet. Sending e-mail. Preparing simple web pages. Credit units: 4 ECTS Credit Units: 5. Aut (M. Özsoy) Spr (S. Uğurlubilek)
CTP 192  Introduction to Computer Applications

CTP 193  Computer Applications
An introduction to the basic structure of a computer and computer applications. Course topics include the basic usage of an operating system, basic file and directory operations. Fundamentals of word processing. Slide show presentations. The use of the internet. Introductory web publishing. Spreadsheets. Credit units: 4 ECTS Credit Units: 4. Aut (S. Uğurlubilek) Spr (S. Uğurlubilek)

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-five day training period is undertaken during the summer brake following a successful completion of the first year. Credit units: None ECTS Credit Units: , Prerequisite: CTP 101 and CTP 105. Aut (S. Uğurlubilek)

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 base classes and polymorphism. Credit units: 5 ECTS Credit Units: 8, Prerequisite: CTP 102. Aut (İ. Sözen) Spr (İ. Sözen)

CTP 202  Object Oriented Programming II
Further development of object oriented concepts and techniques in Java. Exceptions, extensive introduction to key packages in the Java class library(i/o, util, event, java.swing etc.). Developing user-interfaces with swing. Credit units: 5 ECTS Credit Units: 8. Prerequisite: CTP 201. Aut (F. Yüretn) Spr (F. Yüretn)

CTP 203  Operating Systems
Introduction to operating system concepts. Process management. Process scheduling, deadlocks. Resource management. Memory management. Device management. Comprehensive hands-on experience in the lab with the UNIX and LINUX environment and shell-programming. (Four hours lecture, two hours lab.) Credit units: 5 ECTS Credit Units: 6. Prerequisite: CTP 118. Aut (H. Özmen) Spr (T. Baycan)

CTP 204  Networking Principles and Applications
Credit units: 4 ECTS Credit Units: 4, Prerequisite: CTP 203. Aut (C. U. Ayfer) Spr (C. U. Ayfer)

CTP 206  Database Management Systems
Data modelling, data management, and administration concepts. Entity relationship model, relational data model, SQL, relational algebra. Database design considerations. Concurrency control techniques. Crash recovery. Hands-on experience with using SQL as a database tool. (Four hours lecture three hours lab.) Credit units: 5 ECTS Credit Units: 6. Prerequisite: CTP 225. Aut (F. Yüretn) Spr (F. Yüretn)

CTP 208  Programming for the Internet
Fundamentals of web-based computing, web clients and hyper text servers, the CGI standard and CGI programming techniques. State of the art scripting tools like Perl and PHP will be used in development. DHTML, Javascripting techniques will be introduced for advanced web based graphical user interface design. Techniques and tools for interfacing to popular RDBMS servers. Socket programming techniques. (Four hours lecture) Credit units: 4 ECTS Credit Units: 5, Prerequisite: CTP 203. Aut (H. Özmen) Spr (H. Özmen)

CTP 209  Systems Development

CTP 210  Term Project
Specification, analysis, implementation, documentation and presentation of a medium-sized software system as small teams under close supervision of a faculty advisor for each team. Structures and operations on those together with the methods that were introduced during the previous programming courses will be implemented. Credit units: 5 ECTS Credit Units: 5, Prerequisite: CTP 201 and CTP 209. Aut (R. Ayfer) Spr (R. Ayfer)
CTP 225  Introduction to Database Management Systems
Record storage and primary file organization. Index structure for files. Databases and database users. Database system concepts and architecture. Entity-Relationship model. Enhanced E-R Model. Credit units: 3 ECTS Credit Units: 4, Prerequisite: CTP 102. Aut (L. Russell-Dağ) Spr (L. Russell-Dağ)

CTP 291  Computer Applications for Business I
Advanced features of word processing. Desktop publishing concepts. Mail merging. Inserting files, pictures, graphs in documents. Preparing index and table of contents. Switching between applications, generating new applications. Details of the print manager and control panel. Database concepts in spreadsheets. Credit units: 4 ECTS Credit Units: 5, Prerequisite: CTP 191. Aut (M. Özsoy)

CTP 292  Computer Applications for Business II
The objective of the two-year program in the Vocational School of Tourism and Hotel Services is to prepare students for various junior management 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 middle management 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

Teoman Alemdar, Instructor

Oğuz Benice, Instructor
Diplôme, Études Supérieures en Hôtellerie et Restauration, Ecole Hôtelière de Lausanne, Switzerland, 1992. Food and beverage operations and management.

İbrahim Boz, Instructor

Jamel Ben Mohamed Chafra, Instructor

Aysê Bas Collins, Assistant Professor
Ph.D., Educational Sciences, Middle East Technical University, 1999. Human resources management, senior project.

Nazende Özkarame Coşkun, Instructor

İhsan Çetin, Instructor

Hacer Çinar, Instructor

Şermin Elmas, Instructor
Ph.D., Sociology, Middle East Technical University, 2002. Sociology, organizational behavior.

Yener Ergüven, Instructor

Hakan Erkutlu, Instructor
Ph.D., Management, Gazi University, 2003. Business administration, marketing.

Tekin Ertan, Instructor
M.B.A., School of Hotel, Restaurant and Institutional Management, Michigan State University, 1965. Hotel operations, food and beverage operations.

Cevat Ertuna, Instructor

Zeliha İlhan Ertuna, Instructor
Eda Gürel, Instructor
Güneş Karamullağlu, Instructor
M.B.A., Social Sciences, Gazi University, 2000. Travel operations and management, tour development and implementation, event management.
Hendrik C. Kuchlein, Instructor
Nuriye Örer, Instructor
Perin Öztin, Instructor
Aykut Pekcan, Assistant Professor
Kamer Rodoplu, Instructor
Nazimuddeen M. Saleem, Instructor
Esin Şenol, Instructor
B.S., Food Engineering, Middle East Technical University, 1989. Food sciences, cost control.
Cem Tarhan, Instructor
Engin Türel, Instructor
Ali Ünal, Instructor

PART-TIME ACADEMIC STAFF

Esra Isfendiyar, B.A., Administrative Sciences, Middle East Technical University, 1986.
TOURISM AND HOTEL ADMINISTRATION


Part-time: E. İsfendiyar.

Vocational Program in Tourism and Hotel Management

The Tourism and Hotel Management (THS) 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**

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<tr>
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<tr>
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<td>Introduction to Business 3 / 5</td>
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<td>THS 121</td>
<td>Business Mathematics 2 / 2</td>
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<tr>
<td>THS 131</td>
<td>Introduction to Tourism Industry 3 / 5</td>
</tr>
<tr>
<td>THS 161</td>
<td>Health Studies 1 / 1</td>
</tr>
<tr>
<td>THS 162</td>
<td>Behavior and Etiquette 1 / 1</td>
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<tr>
<td>GE 100</td>
<td>Orientation 1 / 1</td>
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<tr>
<td>BM 100</td>
<td>Keyboarding 2 / 2</td>
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<tr>
<td>BIM 181</td>
<td>PC General Applications 3 / 3</td>
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<td>ELS 101</td>
<td>English for Professional Purposes I 4 / 6</td>
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<td>Second Foreign Language* 3 / 6</td>
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*(Students take either ELS 101 or ELS 103)*

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<tbody>
<tr>
<td>THS 110</td>
<td>Nutrition, Hygiene and Safety 3 / 5</td>
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<td>THS 126</td>
<td>Food and Beverage Operations 3 / 5</td>
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<tr>
<td>THS 138</td>
<td>World Geography 3 / 5</td>
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<tr>
<td>THS 148</td>
<td>Front Office Operations 3 / 5</td>
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<tr>
<td>THS 150</td>
<td>Basic Accounting 3 / 5</td>
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<td>ELS 102</td>
<td>English for Professional Purposes II 4 / 6</td>
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<td>Second Foreign Language* 3 / 6</td>
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*(Students take either ELS 102 or ELS 104)*

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THS 239 Tourism Geography of Turkey .................................................... 3 / 6
THS 241 Human Resources Management ................................................ 3 / 6
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* SECOND FOREIGN LANGUAGE COURSES

One of the following four-semester sequences of courses in Japanese, French, German, Italian, Spanish, or Russian can be taken to fulfill the second foreign language requirements:

Japanese : JAP 161/162/163/164
French : FRE 161/162/163/164
German : GER 161/162/163/164
Italian : ITA 161/162/163/164
Spanish : SPA 161/162/163/164
Russian : RUS 161/162/163/164

** ELS (ENGLISH LANGUAGE SUPPORT) COURSES

Only those students who are required to take ELS 103 and ELS 104 in the first year should take ELS 203 and ELS 204 in the second year.

COURSE DESCRIPTIONS

THS 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. Credit units: 3 ECTS Credit Units: 5. Aut (Y. Ergüven) Spr (Y. Ergüven)

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. Aut (N. Örer) Spr (N. Örer)

THS 121 Business Mathematics

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. Aut (T. Ertan) Spr (T. Ertan)
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. Aut (O. Benice) Spr (O. Benice)

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. Aut (E. Gürel) Spr (G. Karamulladji)

THS 138 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 charge, lost luggage, and skippers. Credit units: 3 ECTS Credit Units: 5. Aut (J. B. M. Chafra) Spr (J. B. M. Chafra)

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. Aut (I. Boz) Spr (I. Boz)

THS 148 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 prompt 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 (N. Öner) Spr (E. Şenol)

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. Aut (Z. Ü. Ertuna) Spr (Z. Ü. Ertuna)

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: 3. Aut (E. Türel) Spr (E. Türel)

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. Aut (E. Şenol) Spr (E. Şenol)

THS 221 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. Aut (H. C. Kuchlein) Spr (H. C. Kuchlein)

THS 222 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: THS 221. Aut (H. C. Kuchlein) Spr (H. C. Kuchlein)

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. Aut (A. Unal) Spr (A. Unal)

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: THS 150 or THM 106. Aut (H. Çınar) Spr (J. B. M. Chafra)
THS 228  Housekeeping Operations
Explores housekeeping supervision comprehensively and concentrates on laundry and linen operations, cleaning of public areas and servicing of guests’ rooms. The course further looks into salient aspects of ground and gardens operation and property maintenance stressing energy conservation methods.  
**Credit units:** 3 ECTS  
**Credit Units:** 6.

THS 233  Travel Agency Operations
Focuses on travel agencies, how to establish, manage and market travel services; legal structures, management functions, office procedures are main topics to be covered.  
**Credit units:** 3 ECTS  
**Credit Units:** 5.  
Aut (G. Karamullaoğlu)  
Spr (G. Karamullaoğlu)

THS 239  Tourism 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:** 6.

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:** 6.  
Aut (Staff)

THS 245  Purchasing
Covers the main topics with regards to initial planning, selection of vendors, importance of a written specification, operational 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:** 2 ECTS  
**Credit Units:** 4.  
Aut (E. Şenol)

THS 256  Marketing
Lays the groundwork for an understanding of marketing principles and reveals how these principles are applied in the marketing environment for the beginning marketing student. Various case studies that support the course helps to present the complex and fascinating world of marketing in a lively and enjoyable way.  
**Credit units:** 3 ECTS  
**Credit Units:** 5.  
Aut (H. Erkutlu)  
Spr (H. Erkutlu)

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:** 6.  
Aut (C. Tarhan)  
Spr (C. Tarhan)

THS 260  Supervision
An overview of the nature and responsibilities of the supervisor. This course integrates technologies, work environment and leadership qualities. Tools for decision making, supervisory functions, scheduling, directing and controlling are analyzed through cases, exercises and simulations.  
**Credit units:** 3 ECTS  
**Credit Units:** 6.  
Aut (Y. Ergüven)  
Spr (Y. Ergüven)

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 for the employer 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:** 5.  
Aut (E. Türel)  
Spr (E. Türel)

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:** .  
Aut (A. Paşamehmetoğlu)
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 effect their GPA and CGPA. Students may choose from a rich selection of physical education and sports courses offered every semester.

ACADEMIC STAFF

Kaan Eynak, Instructor
B.S., Physical Education and Sports, Gazi University, 1984.

Filiz Gur, Instructor
B.S., Physical Education and Sports, Gazi University, 1986.

Hayri Ozkan, Instructor

Alper Ugras, Instructor

PART-TIME ACADEMIC STAFF

Mesut Atay, B.S., Physical Education and Sports, Middle East Technical University, 1994.

Sinan Can Aydin, M.S., Physical Education and Sports, Gazi University, 2002.


Selim Bubu, B.S., Physical Education and Sports, Middle East Technical University, 2000.


Yildiray Sahin Kanat, B.S., Physical Education and Sports, Middle East Technical University, 1994.


Omer Mihaliç, B.S., Physical Education and Sports, Gazi University, 1979.

Ilyas Okan, M.S., Physical Education and Sports, Gazi University, 1994.

Filiz Ozturk, M.S., Physical Education and Sports, Middle East Technical University, 2002


Seyfi Savaş, M.S., Physical Education and Sports, Gazi University, 1992.

Halim Şener, M.S., Physical Education and Sports, Gazi University, 1986.

Bülent Uzunoğlu, B.S., Physical Education and Sports, Middle East Technical University, 1997.

İrfan Yıldırım, M.S., Mining Engineering, Essex University, 1983.

COURSE DESCRIPTIONS

PE 110 Beginning 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: . Aut (S. C. Aydın, S. Bülbül, H. Şener, A. Uğraş) Spr (S. C. Aydın, S. Bülbül, M. S. Gür, H. Şener)

PE 120 Badminton
This course focuses on teaching basic techniques including serve, underhand and overhead shots, foot work and movement, rules and strategies of the game. Credit units: 1 ECTS Credit Units: . Aut (I. Yıldırım) Spr (I. Yıldırım)

PE 125 Table 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: . Aut (I. Görel, A. Uğraş) Spr (I. Görel, A. Uğraş)
PE 130  Basketball
Students learn basic techniques (receiving, passing, dribbling, shooting), rules and strategies of the game. Credit units: 1 ECTS Credit Units: . Aut (K. Eynak, S. Savas) Spr (K. Eynak, S. Savas)

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: . Aut (S. Baturalp, Ö. Mihalliçık)

PE 155  Mountaineering
Students learn basic concepts and techniques of mountain climbing, hiking and tracking. Safety, first aid, equipment, practical experience and other aspects of these activities will be covered. They will also develop an appreciation to these activities, environment and nature. Credit units: 1 ECTS Credit Units: .

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: . Aut (F. Öztürk, B. Uzunoğlu)

PE 170  Turkish Folk Dancing
Introduction to famous Turkish folk dances (Antep, Adıyaman, Zeybek, Kafkas, Horon, etc.) from different regions of Turkey. Students will become aware of the cultural aspects and appreciate the traditional values of this multi-cultural society. Credit units: 1 ECTS Credit Units: . Aut (M. Koşma) Spr (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: . Aut (F. Gür, B. Uzunoğlu) Spr (F. Gür)

PE 180  Football (Soccer)
Students learn basic aspects of football such as; passing, dribbling, shooting, fainting techniques, rules and strategies of the game. Credit units: 1 ECTS Credit Units: . Aut (M. Atay, Y. Ş. Kanat) Spr (M. Ataylı, Okan)

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: . Aut (H. Şener) Spr (H. Şener)

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: . Aut (M. Öztürk) Spr (M. Öztürk)
The following courses are not department-specific and are offered across departments and in some cases, across faculties. One of these courses, "GE 100 - Orientation" is 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 101  Engineering Orientation
This course is required for all the first-year students in the Engineering Faculty. It replaces the GE100 - Orientation course that is taken by the rest of the students in their first year at the university. Part of this course includes all the activities required to be completed in GE100. The course is intended to enable the smooth transition of first-year students from high school to university. It is designed to provide a medium of communication for students among themselves and with their academic coordinators in a small group setting. Through various presentations and activities, the course aims at improving the academic success of students.

Credit units: 1 ECTS  Credit Units: 1. Aut (B. Keyik Çelik, B. Uslu Özdemir, J. M. Verhoeven) Spr (B. Keyik Çelik, B. Uslu Özdemir, J. M. Verhoeven)

GE 212  Introduction to Engineering Mechanics
Introduction to mechanics of solid under tension, compression, shear, torsion and bending. Freebody diagrams, equilibrium, trusses, frames, stress and strain, Hooke's law, Mohr's circle. Equilibrium of particles and rigid bodies, moments, couples. The concept of statistics and solid mechanics with the modeling of physical systems and design of simple structure.  
Credit units: 3 ECTS  Credit Units: 3. Spr (M. Akgül)

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: 3. Spr (V. Paternotte)

GE 301  Science Technology and Society
History and philosophy of science and technology since the seventeenth century. Origins of the modern scientific method in the Western world and the consolidation of the scientific world view through the scientific and industrial revolutions. Science and religion. Social, cultural, and psychological changes induced by the advent of new technologies. Historical and contemporary critical attitudes towards technology and industrial development. Information technology and its consequences: Changes in the nature of work. How information technology influences the structure of organizations and society, management, and global economic relations. Information as property and commodity. Issues of security, privacy, reliability, and social control. Effects on human psychology, social relationships, and education. Ethical issues and professional responsibilities students may face as citizens or professionals.  
Credit units: 2 ECTS  Credit Units: 2. Aut (H. Özaktas)

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. Özaktas)

GE 308  Thermodynamics
Credit units: 2 ECTS  Credit Units: 2. Spr (N. Yücel)
GE 390    Traffic and Society
The objective of this course is to provide students with an understanding of traffic, its related issues and its impact on society. Topics covered include traffic laws, psychology and first aid in accidents. More specifically, the first part of the course examines Turkish traffic laws, their application and interpretation. In the second part of the course the psychology of driving will be emphasized and factors which effect driver behavior will be discussed. Finally, in the last part of the course first aid in traffic accidents will be covered with practical applications. (In Turkish) Credit units: 3 ECTS

GE 401    Innovative Product Design and Development I
This senior multidisciplinary course focuses on the fundamentals of design - from the conception of an idea to a marketable end product. A team of students from various departments including engineering, design, economics and business, prepare business plans, do project management, design and implement their product, as well as simulate its marketing. In the year-long process, they take into account standards, quality directives, social and environmental factors and operate in a team environment. The students also benefit from the seminars delivered by experts as well as a stock market experience they get from the virtual stock market at which the stocks of the companies owned by the student teams are traded. By the end of the first semester, concept demonstration of the end-product must be presented. Credit units: 3 ECTS

GE 402    Innovative Product Design and Development II
Continuation of the senior multidisciplinary design course, GE401. In the second semester, the companies are introduced to the stock market. The working prototypes of the end products must be presented by the end of the semester. Credit units: 3 ECTS
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