Bilkent University

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2003-2004
Bilkent University
General Catalog, Volume XI, 2003-2004

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### ACADEMIC CALENDARS 2003 - 2004

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

#### Autumn Semester
- **18 - 21 September 2003** Online course registration
- **22 September 2003** Classes begin
- **6 October 2003** Last day for adding/dropping courses
- **28 October 2003 after 13:30** National Holiday
- **29 October 2003** National Holiday
- **10 November 2003** Commemoration of Atatürk
- **24 November 2003** No classes
- **25 - 27 November 2003** Holiday
- **28 November 2003** No classes
- **26 December 2003** Last Day to Withdraw from Courses
- **1 January 2004** New Year's Day
- **9 January 2004** Classes end
- **12 January 2004** Beginning of final examinations
- **21 January 2004** End of semester

#### Spring Semester
- **5 - 8 February 2004** Online course registration
- **9 February 2004** Classes begin
- **23 February 2004** Last day for adding/dropping courses
- **23 April 2004** National Holiday
- **4 May 2004** Last Day to Withdraw from Courses
- **18 May 2004** Classes end
- **19 May 2004** National Holiday
- **20 May 2004** Beginning of final examinations
- **28 May 2004** End of academic year

#### Summer School
- **1 - 2 June 2004** Registration
- **3 June 2004** Classes begin
- **21 July 2004** Classes end
- **22 - 26 July 2004** Final examinations
**ENGLISH LANGUAGE PREPARATORY PROGRAM**

### Autumn Semester
- 1 - 2 September 2003: Registration for 2002 Registered Students
- 2 September 2003: Classes start for continuing students
- 12 September 2003: Exemption Exam Stage 1
- 14 September 2003: Announcement of Stage 1 results
- 15 September 2003: Exemption Exam Stage 2
- 18 September 2003: Announcement of Stage 2 results
- 22 September 2003: Classes begin (am)
- 30 September 2003: Last day of late registration
- 28 October 2003 after 12:30: National Holiday
- 29 October 2003: National Holiday
- 19 - 21 November 2003: Course 1 exam week
- 24 - 28 November 2003: Holiday
- 1 December 2003: Classes begin (am)
- 25 December 2003: No classes
- 1 January 2004: New Year’s Day
- 23 January 2004: Semester 1 COPE (Cert. of Proficiency in English Exam)
- 30 January 2004: Announcement of COPE results
- 29 - 30 January 2004: Course 2 exam week
- 30 January 2004: End of Semester
- 2 - 4 February 2004: Holiday
- 5 - 15 February 2004: Semester break

### Spring Semester
- 16 - 17 February 2004: Registration
- 18 February 2004: Classes begin (am)
- 26 February 2004: Last day of late registration
- 19 - 22 April 2004: Course 3 exam
- 23 April 2004: National Holiday
- 26 April 2004: Classes begin (am)
- 19 May 2004: National Holiday
- 23 - 25 June 2004: Course 4 exam week
- 28 June 2004: Semester 2 COPE
- 2 July 2004: Announcement of COPE results
- 2 July 2004: End of semester

### Summer School
- 29 June - 30 July 2004: Summer School Part I
- 23 Aug. - 9 Sept. 2004: Summer School Part II
  (Dependent on University registration dates)
### Autumn Semester
- 13 September 2003: French Aptitude Examination (FAE)
- 18 September 2003: Announcement of FAE Results
- 22 - 23 September 2003: Registration
- 24 September 2003: Classes begin
- 28 October after 12:30: National Holiday
- 29 October 2003: National Holiday
- 4 - 5 November 2003: Midterm I
- 24 November 2003: No classes after 12:30
- 25 - 27 November 2003: Holiday
- 16 - 17 December 2003: Midterm II
- 25 December 2003: Holiday
- 1 January 2004: New Year's Day
- 16 January 2004: Classes end
- 19 - 20 January 2004: Final Exams
- 23 January 2004: Exam Results/End of semester

### Spring Semester
- 9 - 10 February 2004: Registration
- 11 February 2004: Classes begin
- 23 - 24 March 2004: Midterm I
- 23 April 2004: National Holiday
- 4 - 5 May 2005: Midterm II
- 19 May 2004: National Holiday
- 4 June 2004: Classes end
- 7 - 8 June 2004: Final exams
- 11 June 2003: Exam Results/End of semester
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 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 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; 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 Clermont and the Ecole Supérieure de Commerce de Lille of France. The university also has a communications office at 600 Madison Avenue 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 23 private universities in Turkey. Bilkent gets many of the very best of these students. For example, in the 2003 examination, 30 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 2003-2004 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 Tourism and Hotel Management
- Vocational School of Computer Technology and Office Management
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 Eğitimi Giriş 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](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 at least a month before the beginning of the semester in which the student plans to register. 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 graduate or transfer application to be considered, the applicant must submit the following:

a) Completed application form
b) Official transcripts from previous university
c) Non-refundable application fee of $50 (U.S.) deposited in one of the following accounts:

<table>
<thead>
<tr>
<th>Bank</th>
<th>Account No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yapı Kredi Bankası</td>
<td>940001-1</td>
</tr>
<tr>
<td>Bilkent Şubesi</td>
<td></td>
</tr>
<tr>
<td>Bilkent Üniversitesi</td>
<td></td>
</tr>
<tr>
<td>İş Bankası</td>
<td>990</td>
</tr>
<tr>
<td>Döviz Hesap (Account) No:</td>
<td>615002-3</td>
</tr>
<tr>
<td>Döviz Hesap (Account) No:</td>
<td></td>
</tr>
<tr>
<td>06800 Bilkent, Ankara,</td>
<td>06800</td>
</tr>
<tr>
<td>Turkey</td>
<td>Ankara,</td>
</tr>
</tbody>
</table>

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 2003-2004 academic year are as follows:

\textit{Tuition}:

\begin{center}
\begin{tabular}{l c}
Turkish citizens & $6,000 \ (U.S.) + 8\% \ VAT \\
International Students & $7,800 \ (U.S.) + 8\% \ VAT \\
\end{tabular}
\end{center}

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:

<table>
<thead>
<tr>
<th>Room Type</th>
<th>Price (U.S.)</th>
<th>VAT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Four-bed room (per person)</td>
<td>$593</td>
<td>18%</td>
</tr>
<tr>
<td>Double room (per person)</td>
<td>$1,245</td>
<td>18%</td>
</tr>
<tr>
<td>Single room</td>
<td>$2,585</td>
<td>18%</td>
</tr>
<tr>
<td>Single with bath (Dorms # 90, # 91)</td>
<td>$2,881</td>
<td>18%</td>
</tr>
<tr>
<td>Suite Room (Dorms # 52, # 64)</td>
<td>$4,322</td>
<td>18%</td>
</tr>
<tr>
<td>Single Room with bath &amp; kitchenette (Special Dorm)</td>
<td>$4,110</td>
<td>18%</td>
</tr>
<tr>
<td>Suite Room (Dormitory # 93)</td>
<td>$5,339</td>
<td>18%</td>
</tr>
</tbody>
</table>

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>Quality Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>4.00</td>
</tr>
<tr>
<td>A-</td>
<td>3.70</td>
</tr>
<tr>
<td>B</td>
<td>3.00</td>
</tr>
<tr>
<td>B-</td>
<td>2.70</td>
</tr>
<tr>
<td>C</td>
<td>2.00</td>
</tr>
<tr>
<td>C-</td>
<td>1.70</td>
</tr>
<tr>
<td>D</td>
<td>1.00</td>
</tr>
<tr>
<td>D-</td>
<td>0.70</td>
</tr>
<tr>
<td>F</td>
<td>0.00</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), T (Transfer) and W (Withdrawal). 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>x 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 x 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.
ACADEMIC FACILITIES AND SERVICES

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 and high speed matrix printer pools 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 a total of 53 Mbit/sec Internet bandwidth over three different connections, including a 15 Mbit/sec private satellite connection to the USA. All computers on BILNET have direct Internet access.

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.

High Performance Parallel Computer

A Parsytec CC-24 MPP parallel system is installed at Bilkent University. Parsytec CC is a distributed-memory message-passing multicomputer and contains 24 processing elements, each equipped with 133 MHz PowerPC with a total memory of 1,892 Mbytes. The interprocessor node-to-node communication bandwidth is 50 Mbytes/sec.
PC Cluster
A Beowulf cluster of 32 Pentium PC's are maintained for research on parallel scientific computing problems.

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) and SRS (Student Review 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 UNIX operating system, 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 9:00 to 23:30 throughout the year. The East Campus branch library, located on the top floor of the Catering Center, is open from 9:00 to 23:30 Sunday-Thursday and closes at 17:00 on Friday and Saturday. 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 Internet. Circulation of the collection is also automated. Internet access is available in both libraries.

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

The collection contains over 430,000 items. The book collection, of over 340,000 volumes, has been increasing by 20,000 volumes annually. The library subscribes to over 3,100 journals from the USA and Europe and provides electronic access to more than 5,300. 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 90 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. The library regularly assesses and acquires access to new databases. 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 38,000 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 serves as a 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. Bilkent provides a shuttle bus connection to the nearby Middle East Technical University (METU) and Hacettepe (Beytepe) University Libraries.

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 Özaktaş, 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
- Food and Wine 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: Ayşın 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 résumé 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” every year, and keeps alumni posted about new developments in the university through Alumni Office publications. 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.

**International Center** (Coordinator: Dr. Saadet Bozkurt)
Operating under the Dean of Students, the International Center acts as a liaison and advisory office for international students and faculty members. Cooperating with other administrative and academic units, the IC helps them with a wide range of issues, such as academic, social and cultural concerns. IC also offers orientation programs for international students, and handbooks for both the international students and faculty.

**Student Development and Counseling Center** (Coordinator: R. Neslihan Rugancı)
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 psychotherapy; seminars, workshops, talk groups and written materials for preventive purposes (stress management, relaxation training, 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, career counseling, 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, a general practitioner, two gynecologists, an eye specialist, a pediatrician, two psychiatrists, two dermatologists, an orthopedist, a dentist 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 and 2 (the neighboring residential area). A physician and a nurse are both on duty at the Health Center on Main and East Campus 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
- Preventive action 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 established 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 and is available at the Health Center.
A student who wants an examination from a specialist who has an agreement with Bilkent Health Center should see the doctor first. The Health Center doctors will give the student a letter of referral, 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, treatment outside the Health Center
- Glasses and frames, hearing aid, dentures
- Any medical expenses for a member's relatives
- Hospitalization stay.

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, judo, 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 404 for details).

STUDENT HOUSING

Bilkent University offers undergraduate student housing on campus, in twenty-four 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.
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Director: Kamer Rodoplu 266 4297 - 290 5001
rodoplu@bilkent.edu.tr
Asst. Director: Tekin Ertan 266 4296 - 290 5001
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Asst. Director: Engin Türel 290 5001 - 290 5002
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Business Information Management
Chair: Nur Sağlam 290 5025
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Computer Technology and Information Systems
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Tourism and Hotel Management
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VOCATIONAL SCHOOL OF COMPUTER TECHNOLOGY AND OFFICE MANAGEMENT

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Accounting
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Bureau Management and Secretarial Training
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Commerce and Administration
Acting Chair: Nermin Fenmen 290 5061
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Computer Technology and Programming
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VOCATIONAL SCHOOL OF TOURISM AND HOTEL SERVICES

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Tourism and Hotel Administration
Chair: Teoman Alemdar 266 4296 - 290 5003
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INSTITUTES

Graduate School of Education
Director: Margaret K. Sands, Ph.D. 290 2951
msands@bilkent.edu.tr

Institute of Economic and Social Sciences
Director: Kürşat Aydoğan, Ph.D. 266 4164 - 290 1276
aydogan@bilkent.edu.tr

Institute of Engineering and Science
Director: Mehmet Baray, Ph.D. 290 1208 - 290 1218
baray@bilkent.edu.tr

Institute of Fine Arts
Director: Bülent Özgüç, Ph.D. 266 4471 - 290 1486
ozguc@bilkent.edu.tr

Institute of Music and Performing Arts
Acting Director: İşın Metin, Ph.D. 290 1387 - 290 1695
misin@bilkent.edu.tr

RESEARCH CENTERS

Ahmed Adnan Saygun Center for Music Research and Education
Acting Director: İşın Metin, Ph.D. 290 1387 - 290 1695
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Bilkent Center for Advanced Studies (BİCAS)
Director: Salim Çıracı, Ph.D. 290 1216
ciraci@fen.bilkent.edu.tr

Center for Research in Transitional Societies (CRITS)
Director: Güliz Ger, Ph.D. 290 2949
ger@bilkent.edu.tr

Center for Russian Studies
Director: Norman Stone 290 2269
norman@bilkent.edu.tr

Center for Studies in Society and Politics
Director: Ergun Özbudun, Ph.D. 290 1266
ozbudun@bilkent.edu.tr

Center for Turkish Language and Speech Processing
Director: Enis Çetin, Ph.D. 290 1477
cetin@ee.bilkent.edu.tr

Center for Turkish Literature
Director: Talat S. Halman 290 2711 - 290 2472
turkedeb@bilkent.edu.tr
Center of Turkish Politics and History
Director: Metin Heper, Ph.D. 290 1929
heper@bilkent.edu.tr

Communications and Spectrum Management Research Center (İSYAM)
Director: Hayrettin Köymen, Ph.D. 290 2457 - 290 2458
koymen@ee.bilkent.edu.tr

Genetics and Biotechnology Research and Development Center (BİLGEN)
Director: Mehmet Öztürk, Ph.D. 290 2393
ozturk@fen.bilkent.edu.tr
FACULTY OF ART, DESIGN AND ARCHITECTURE

Bülent Özgüt, Ph.D., Dean
Halime Demirkan, Ph.D., Asst. Dean

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

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

Jülide Aksiyote, Instructor

Deniz Altay, Instructor

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

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

Kumru Arapkirlioğlu, Instructor
M.S., Urban and Regional Planning, Florida State University, 1986.

Şule Aybar, Instructor

İnci Başa, Instructor
Ph.D., Architecture, Middle East Technical University, 2000.

Gülşüm Baydar, Associate Professor

Emre Becer, Associate Professor
Higher Diploma in Art, Graphic Design, Marmara University, 1986. Graphic design, typography.

Marek Brzozowski, Assistant Professor
Ilgın Çarkacı, Instructor  

Gaye Çulcuoğlu, Instructor  

Osman Demirbaş, Instructor  

Halime Demirkan, Associate Professor  

Alexander Djikia, Instructor  

Pelin Ercan, Instructor  
M.S., Communication Design, Pratt Institute, 2000.

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

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

John Robert Groch, Assistant Professor  
Ph.D., American Studies, University of Iowa, 1996.

Meltem Gürel, Instructor (on leave)  

Cengiz Gürer, Instructor  

Murad Gürzumar, Instructor  

Belemir Dalokay Güzer, Instructor  
B.A., Landscape Architecture, Ankara University, 1983.

Orhan İktu, Instructor  

Çağrı İmamoğlu, Instructor  

Selen İmamoğlu, Instructor  

Fulya İnce, Instructor  

Emine Onaran İncirlioğlu, Assistant Professor  

Hazım Murat Karamüftüoğlu, 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. (joint appointment with department of communication and design)

Dilek Kaya-Mutlu, Instructor  
Ph.D., Graphic Design, Bilkent University, 2002. Film Studies, Cultural Studies.

Turhan Kayasü, Instructor  
M.Arch., Architecture, Middle East Technical University, 1976.

Nina Kertselli, Instructor  
Nerkis Kural, Instructor
M.C.P., City and Regional Planning, Middle East Technical University, 1974.

Alper Küçük, Instructor
M.S., Interior Design, Pratt Institute, 1996.

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

Oktan Nalbantoğlu, Instructor

Kağan Olguntürk, Instructor
M.F.A., Film Directing and Visual Techniques, Marmara University, 2000.

Serpiş Özaloğlu, Instructor
M.Arch., History of Architecture, Middle East Technical University, 1999.

Özlem Özkal, Instructor
Ph.D., Graphic Design, Bilkent University, 1998.

Ahmet Özsalar, Instructor

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

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

Aysu Sağun, Instructor

Yaprağ Sağdır, Instructor

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

Cağla Nezehat Sarac, Instructor (on leave)

Zekiye Sarıkartal, Assistant Professor
Higher Diploma in Art, Sculpture, Dokuz Eylül University, 2000. Painting, printmaking, installation.

Mariusz Sladczyk, Instructor

Tijen Sonkan Türkkan, Instructor

Asuman Suner, Assistant Professor
Ph.D., Communication, University of Massachusetts, 1996.

Burcu Şenyapılı, Assistant Professor

Sezin Tanrıöver, Instructor

Şule Taşlı Pektaş, Instructor

Sedvan Teber, Instructor

Dominique Tezgör-Kassab, Assistant Professor
Ph.D., (State Doctorate), History of Civilization and Archaeology, University of Human Sciences of Dijon, 1993.
Saadet Aységül Tokol, Instructor  
Ph.D., Architecture, Middle East Technical University, 1997. Urban morphology, space syntax, urban theory.

Andreas Treske, Assistant Professor  

Elif Erdemir Türkkan, Instructor  

Zuhal Ulusoy, Assistant Professor (on leave)  

Sibel Ertez Ural, Instructor  
Ph.D., Architecture, Karadeniz Technical University, 1995. Basic design, color dynamics.

Mine Üçok, Instructor (on leave)  

Ilgım Veryeri, Instructor  

Christopher Wilson, Visiting Instructor  

Tomris Yardımcı, Instructor  
M.Arch., Restoration, Middle East Technical University, 1975.

Cengiz Yener, Associate Professor  

Semih Yılmazer, Instructor  
Ph.D., Architecture, Karadeniz Technical University, 1998.

Beata Zalewska-Sladczyk, Instructor  

PART-TIME ACADEMIC STAFF

Aykan Alemdaroğlu, M.A., Latin Language and Literature, İstanbul University, 2001.  


Ferhan Erder, Freelance Ceramics Artist.


Berna Güner, M.Arch., School of Architecture, University of Miami, 1996.


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


Deniz Selkan Polatkan, M.S., Landscape Architecture, Ankara University, 1996.


Levent Tosun, M.S., Mechanical Engineering, University of Manchester, 1974.


Kerem Yenителkaya, B.S., Architecture, Gazi University, 1993.

Murat Yetkin, B.A., Mechanical Engineering, Middle East Technical University, 1989.
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

**Autumn Semester**
- COMD 101 Introduction to Visual Communication Design I ........................................... 4
- GE 100 Orientation ........................................................................................................... 1
- CS 153 Introduction to Computing I .................................................................................. 3
- FA 171 Introduction to Art and Culture I ......................................................................... 3
- ENG 101 Introduction to Sociology ................................................................................... 3
- TURK 101 Turkish I ........................................................................................................... 2

**Spring Semester**
- COMD 102 Introduction to Visual Communication Design II ........................................... 4
- CS 154 Introduction to Computing II ................................................................................ 3
- FA 172 Introduction to Art and Culture II ...................................................................... 3
- ENG 102 English and Composition II ............................................................................. 3
- PSYC 102 Introduction to Social Psychology ................................................................ 3
- TURK 102 Turkish II ........................................................................................................ 2

#### SECOND YEAR

**Autumn Semester**
- COMD 203 Introduction to Communication Studies I ....................................................... 3
- COMD 221 Visual Communication and Perception .......................................................... 3
- CS 155 Multimedia Authoring System and Standards .................................................... 3
- HUM 111 Cultures Civilizations and Ideas I ................................................................... 3
- HIST 201 History of Turkish Republic I ......................................................................... 2
- Restricted Elective ............................................................................................................ 3

**Spring Semester**
- COMD 204 Introduction to Communication Studies II .................................................. 3
- COMD 212 Principles of Visual Communication Design ............................................. 3
- MATH 264 Statistics for Social Sciences ........................................................................... 3
- HUM 112 Cultures Civilizations and Ideas II .................................................................. 3
- ECON 103 Principles of Economics ............................................................................... 3
- HIST 202 History of Turkish Republic II ..................................................................... 2
- Restricted Elective ............................................................................................................ 3
### THIRD YEAR

**Autumn Semester**
- COMD 290 Summer Practice I
- COMD 341 Media and Society
- COMD 345 Interpersonal Communication
- MAN 333 Marketing Principles
- GRA 351 Introduction to Video Production Techniques I
- GRA 353 Design: Image and Text I

**Spring Semester**
- COMD 342 Popular Culture
- COMD 352 Internet Technologies and Electronic Commerce
- GRA 344 Psychology of Advertisement
- GRA 352 Introduction to Video Production Techniques II
- GRA 354 Design: Image and Text II

### FOURTH YEAR

**Autumn Semester**
- COMD 390 Summer Practice II
- COMD 461 Public Relations and Communication Campaigns
- COMD 481 Visual Communication Project I
- MAN 216 Elements of Finance
- MAN 262 Organizational Behavior
- Restricted Elective

**Spring Semester**
- COMD 422 Advanced Issues in Communication Studies
- COMD 432 Principles of Journalism
- COMD 471 Media Ethics and Responsibility
- COMD 482 Visual Communication Project II
- Restricted Elective

### RESTRICTED ELECTIVES
- COMD 331 News Reporting and Writing
- CS 156 Introduction to Advanced User Interfaces
- POLS 101 Introduction to Political Science I
- POLS 102 Introduction to Law
- BIM 496 Selected Topics in Business Communications
- GRA 207 Conceptual Design
- GRA 215 Animation and Film/Television Graphics I
- GRA 216 Animation and Film/Television Graphics II
- GRA 223 Photographic Image Processing I
- GRA 224 Photographic Image Processing II
- GRA 324 Photographic Practice
- FA 271 History of Art I
- FA 272 History of Art II
- ENG 215 Special Topics for English Development

### 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. Various theories of design. 

*Credit units: 6. Spr (A. Canko)*
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. Aut (J. Aksiyote, A. Canko)

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. Prerequisite: COMD 101. Spr (J. Aksiyote, A. Canko)

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. Letteral, symbolic and metaphorical communication; visual metaphors. Credit units: 3. Aut (M. Mutman)

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. Spr (M. Mutman)

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. Spr (D. Kaya-Mutlu)

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. Aut (D. Kaya-Mutlu)

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. Aut (Staff)

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. Aut (M. Yetkin)

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. Aut (J. R. Groch)

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. Spr (H. M. Karamuğlu)

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. Aut (S. İmamoğlu)

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. Spr (C. Dolanbay)

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. 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. Spr (M. Mutman)

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. Spr (M. Yetkin)

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. 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. 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. Aut (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. Spr (A. Treske)
DEPARTMENT OF FINE ARTS


Part-time: F. Erder, H. Misman.

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, and ceramic studios give 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

**Autumn Semester**

- FA 101 Basic Design I ................................................................. 6
- FA 103 Drawing I ................................................................. 3
- FA 131 Technical Drawing and Lettering I ........................................ 3
- FA 171 Introduction to Art and Culture I ......................................... 3
- GE 100 Orientation ................................................................. 1
- ENG 101 English and Composition I ............................................ 3
- TURK 101 Turkish I ................................................................. 2

**Spring Semester**

- FA 102 Basic Design II ............................................................... 6
- FA 104 Drawing II ................................................................. 3
- FA 132 Technical Drawing and Lettering II ..................................... 3
- FA 172 Introduction to Art and Culture II ....................................... 3
- ENG 102 English and Composition II ........................................... 3
- TURK 102 Turkish II ................................................................. 2

SECOND YEAR

**Autumn Semester**

- FA 190 Summer Practice I .......................................................... -
- FA 201 Art Studio I ................................................................. 6
- FA 203 Drawing III ................................................................. 3
- FA 223 Visual Perception and Color ............................................ 3
- FA 271 History of Art I ............................................................. 3
- HIST 201 History of Turkish Republic I ....................................... 2
- Restricted Elective ................................................................. 3
### Spring Semester

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### Spring Semester

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### Autumn Semester

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

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### ELECTIVES

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<td>Introduction to Printmaking I</td>
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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. Admittance to the graduate program is through a competitive entrance examination which includes a written essay, portfolio presentation and an interview. The exact date and place of the examination is announced each year by the University. The essay part of the examination aims to test both English proficiency and background in art history. The result of the essay examination determines whether or not the student will be admitted to the interview. During the interview the applicants should present a body of well-defined original work as well as slides, videotapes or photographs of work done in the past. (Also refer to the “Graduate Admissions” section in the introduction of this catalog for the general graduate admission requirements.)

Degree Requirements: After completing 24 credit units of course work, the candidate must prepare and submit a thesis. Maximum duration of the program is 5 semesters.

COURSES OFFERED

PAINTING OPTION

FIRST YEAR

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SECOND YEAR

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<td>Master’s Thesis</td>
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**PRINTMAKING OPTION**

**FIRST YEAR**

**Autumn Semester**
- IAED 511 Research Methods I ........................................... 3
- PNT 503 Drawing I ......................................................... 4
- PNT 505 Printmaking I ..................................................... 4
- PNT 511 Philosophy of Art ................................................ 3
- PNT 515 Issues and Problems in Contemporary Art I ................. 3

**Spring Semester**
- PNT 504 Drawing II ....................................................... 4
- PNT 506 Printmaking II .................................................... 4
- PNT 512 Psychology of Art ................................................ 3
- PNT 516 Issues and Problems in Contemporary Art II ................ 3

**SECOND YEAR**

**Autumn Semester**
- PNT 590 Research Topics ................................................. -
- PNT 599 Master’s Thesis .................................................. -

**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. Admittance is through a competitive entrance examination given before the beginning of each academic year. The exact date and place of the examinations are announced each year by the University. An English Proficiency Examination is given prior to the entrance examination. Since the medium of teaching is English throughout the curriculum, those who fail in the English Proficiency Examination, will not be admitted to the entrance examination and to the program. (Also refer to the “Graduate Admissions” section in the introduction of this catalog for the general graduate admission requirements.)

**Degree Requirements:** The minimal course load for the Ph.D. program is 24 credit units. After completion of courses, the Ph.D. candidate must give a public seminar related to his/her thesis and submit a preliminary thesis report which will be evaluated by a jury composed of well-known scientists and/or artists in the relevant field. Upon a favorable evaluation by the jury, the candidate will qualify for work towards the Ph.D. thesis. At the completion of the thesis, a similar jury will examine the thesis and the candidate for the final decision on the degree. The maximum duration allowed for the completion of degree requirements is 9 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.
DEPARTMENT OF FINE ARTS  37

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. Aut (A. Djikia, E. Öncirlioğlu, F. Korkmaz Direkçi, N. Kural, S. Özaloğlu, M. Sladczyk, S. Tanrıöver, S. E. Ural, C. Wilson, S. Yılmazer) Spr (C. Wilson)

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. Prerequisite: FA 101. Spr (A. Djikia, E. Öncirlioğlu, F. Korkmaz Direkçi, N. Kural, S. Özaloğlu, M. Sladczyk, S. Tanrıöver, S. E. Ural)

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. Aut (N. Kertselli, 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, Prerequisite: FA 103. Spr (N. Kertselli, 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. Aut (A. Alemdaroğlu, Ş. Aybar, Ö. Ejder, S. A. Tokol, C. Wilson)

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. Spr (A. Alemdaroğlu, Ş. Aybar, Ö. Ejder, B. D. Güner, S. A. Tokol, C. Wilson)

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. Aut (Z. Sankartal) Spr (Z. Sankartal)

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, Prerequisite: FA 102. Aut (E. Sağlam)

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, Prerequisite: FA 201. Spr (E. Sağlam)

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, Prerequisite: FA 104. Aut (M. Brzozowski, A. Özsalılar)
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. Prerequisite: FA 203. Spr (M. Brzozowski, A. Özsalar)*

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.*

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. 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.*

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. Aut (H. Misman, Z. Sanıkartal) Spr (H. Misman)*

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

FA 262  Fine Arts Seminar  
Critical assessment of selected national and international artist's works and their ideas and approaches. *Credit units: 3. 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. Aut (D. Tezgör-Kassab)*

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. Spr (D. Tezgör-Kassab)*

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. Aut (Z. Sanıkartal) Spr (Z. Sanıkartal)*

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, Prerequisite: FA 202. Aut (A. Özsalar)*

FA 302  Art Studio IV  
Continuation of FA 301. With emphasis on the development of individual vision and personal expression. *Credit units: 6, Prerequisite: FA 301. Spr (A. Özsalar)*
FA 304 Special Problems in Drawing
Studies of the human body concerning form, color and value. Exploration of individual expression by using models to build up thought and imagery. Contemporary figural expressions. Credit units: 3, Prerequisite: FA 204. Spr (N. Kertselli)

FA 305 Advanced Drawing I
Figural 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.

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.

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.

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.

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. Aut (E. Sağlam)

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.

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. Aut (I. Veryeri)

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. Spr (I. Veryeri)

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. Aut (Z. Sankartal) Spr (Z. Sankartal)

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, Prerequisite: FA 302. Aut (Z. Sankartal)

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, Prerequisite: FA 401. Spr (Z. Sankartal)

FA 421 Analysis of Art Work I
A continuation of the examination of divergent theoretical, literary and historical viewpoints selected from works of art, visual images and objects. Discussions will entail how meaning is produced and what affects the production of meaning in art work. Critical interpretive thinking and alternative ways of responding to the art work are expected from the students. Credit units: 3. Aut (J. Terni)

FA 422 Analysis of Art Work II
Selected works of art, visual images and objects are examined from divergent theoretical, literary and historical viewpoints. Discussions assess the role of the viewer vis-a-vis a singular object and what is meant by the “Birth of the Viewer”. The ways artists analyze works of art and respond to them in their practice are also studied. Credit units: 3, Prerequisite: FA 421. Spr (J. Terni)
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. Aut (A. Rehberg)

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. Spr (E. Sağlam)

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

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. Prerequisite: FA 467.

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.

GRADUATE COURSES

PNT 501  Painting I
Artistic and conceptual surveys at the specialization level. Credit units: 4.

PNT 502  Painting II
Artistic and conceptual surveys at the specialization level; searching for new ways of expression. Credit units: 4.

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.

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. 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.

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.

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.

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.

PNT 590  Research Topics
Credit units: None.

PNT 599  Master’s Thesis
Credit units: None.

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. Aut (Z. Aracagök)

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 Deleuze. 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. Spr (Z. Aracagök)

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

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


Part-time: A. Alemdaroğlu, Ö. Ejder.

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

FIRST YEAR

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SECOND YEAR

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### FA 203  Drawing III ................................................................. 3
### FA 271  History of Art I ............................................................. 3
### HIST 201  History of Turkish Republic I ........................................... 2

#### Spring Semester

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#### Spring Semester

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<td>GRA 302</td>
<td>Graphic Design IV</td>
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#### Autumn Semester

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<tr>
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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 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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<td>GRA 207</td>
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<td>GRA 208</td>
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<td>GRA 210</td>
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<td>GRA 213</td>
<td>Computers in Graphic Design I</td>
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<td>Computers in Graphic Design II</td>
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<td>GRA 215</td>
<td>Animation and Film/Television Graphics I</td>
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<td>Animation and Film/Television Graphics II</td>
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<td>Photographic Image Processing I</td>
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<td>GRA 224</td>
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<td>GRA 313</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>Introduction to Video Production Techniques I</td>
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<td>Design: Image and Text I</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: A good command of English is a prerequisite for admission. All applicants are required to take the entrance examination consisting of a written essay and attend an interview to be considered for admission. Students are encouraged to submit portfolios before the interview. According to their interests and abilities, the students who are admitted then start their graduate studies in the areas of graphic design, visual communications, animation, photography and video. (Also refer to the “Graduate Admissions” section in the introduction of this catalog for the general graduate admission requirements.)

Degree Requirements: Candidates must complete a minimal course work of 24 credit units (from among the courses listed below), and prepare and submit a thesis. Maximum duration of the program is 5 semesters.

COURSES OFFERED

FIRST YEAR

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<tr>
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<td>GRA 515</td>
<td>Computer Graphics and Art I ........................................... 3</td>
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<td>GRA 517</td>
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<td>GRA 519</td>
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<td>On Critical Reasoning and Artwork ..................................... 3</td>
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<td>IAED 511</td>
<td>Research Methods I .......................................................... 3</td>
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<td>GRA 516</td>
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<td>Critical Approaches to Popular Culture ................................ 3</td>
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<td>GRA 542</td>
<td>Mass Media and Visual Technologies ..................................... 3</td>
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<td>GRA 556</td>
<td>What is Contemporary? ..................................................... 3</td>
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<td>GRA 562</td>
<td>Current Perspectives within Post-Modernity ......................... 3</td>
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<td>GRA 568</td>
<td>Semiotics and the Work of Art II ....................................... 3</td>
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SECOND YEAR

| GRA 590 | Research Topics ............................................................. 3 |
| GRA 599 | Master’s Thesis ............................................................ 3 |
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, Prerequisite: FA 102. Aut (E. Becer, M. Brzozowski)

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, Prerequisite: GRA 201. Spr (E. Becer, M. Brzozowski)

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. 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. 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. Spr (Staff)

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.

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. Aut (O. Iktu) Spr (O. Iktu)

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, Prerequisite: FA 132. Aut (E. Becer, F. Ince)

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, Prerequisite: GRA 211. Spr (E. Becer, F. Ince)

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. Aut (M. Sładczyk)

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, Prerequisite: GRA 213. Spr (M. Sładczyk)

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. Aut (D. Kaya-Mutlu)

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. Spr (D. Kaya-Mutlu)
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. Aut (J. Aksiyote, Öktu)

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. Spr (J. Aksiyote, Öktu)

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. Aut (P. Ercan, 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, Prerequisite: GRA 225. Aut (P. Ercan, M. Gürzumar) Spr (P. Ercan, M. Gürzumar)

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. Aut (E. Becer) Spr (E. Becer)

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, Prerequisite: GRA 202. Aut (F. İnce, Ö. Özkal)

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, Prerequisite: GRA 301. Spr (F. İnce, Ö. Özkal)

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. Aut (Ö. Özkal)

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. 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. Aut (C. Gürer)

GRA 334  Packaging II
Realization and preparation of graphics projects on mass communication media. Credit units: 3. 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. Aut (D. Tezgör-Kassab)

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. Spr (Şamamoglu)

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. Aut (Öktu, 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. Spr (O. İktu, 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. Aut (A. Suner)

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: scripting. Students will be expected to write screenplays of various forms. Credit units: 3. Spr (A. Suner)

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. 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. 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. 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.

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.

GRA 444  Marketing
Market research and methods. 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. Spr (C. Gürer)

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.

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 a detailed introduction to personal computers, extensive laboratory work is done by using painting and drafting software packages. Credit units: 3. Aut (H. M. Karamüftüoğlu)

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.

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. 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 critical discourse created through the works of digital artisans, net artists and cyber entrepreneurs as well as the theoretical and analytical localization of current trends. Credit units: 3. Aut (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. Aut (J. R. Groch)

**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.

**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. 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. 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. Aut (Z. Aracagöl)

**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.

**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. Spr (Z. Aracagöl)

**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 concep-tion. Credit units: 3. Aut (M. Gumpert)
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.

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. Aut (A. Suner)

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. Spr (A. Suner)

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

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


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

UNDERGRADUATE PROGRAM

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

UNDERGRADUATE CURRICULUM

FIRST YEAR

Autumn Semester
GE 100 Orientation .................................................. 1
FA 101 Basic Design I .................................................. 6
FA 103 Drawing I .................................................. 3
FA 131 Technical Drawing and Lettering I ......................... 3
FA 171 Introduction to Art and Culture I ......................... 3
ENG 101 English and Composition I .......................... 3
TURK 101 Turkish I .................................................. 2

Spring Semester
FA 102 Basic Design II ............................................... 6
FA 104 Drawing II .................................................. 3
FA 132 Technical Drawing and Lettering II ....................... 3
FA 172 Introduction to Art and Culture II ....................... 3
ENG 102 English and Composition II .......................... 3
TURK 102 Turkish II .................................................. 2

SECOND YEAR

Autumn Semester
IAED 201 Interior Design Studio I ............................. 6
IAED 212 Computers and Geometry .......................... 3
IAED 231 Advanced Design Graphics ......................... 3
IAED 251 Construction and Materials I ....................... 4
IAED 263 History of Built Environment I .................... 3
HIST 201 History of Turkish Republic I ...................... 2

Spring Semester
IAED 202 Interior Design Studio II ........................... 6
IAED 221 Human Factors .......................................... 3
IAED 244  Building Performance: Physical Factors ............................................. 3
IAED 252  Construction and Materials II ......................................................... 4
IAED 264  History of Built Environment II ....................................................... 3
HIST 202  History of Turkish Republic II ....................................................... 2

THIRD YEAR

Autumn Semester
IAED 290  Summer Practice I .................................................................
IAED 301  Interior Design Studio III ......................................................... 6
IAED 311  Computer Aided Design .............................................................. 3
IAED 341  Building Performance: Codes ....................................................... 3
IAED 351  Detailing Studio ............................................................................. 3
Restricted Elective (1) .................................................................................... 3

Spring Semester
IAED 302  Interior Design Studio IV ............................................................ 6
IAED 322  People and Environment ............................................................... 3
IAED 342  Building Performance: Services .................................................. 3
IAED 381  Product Detailing ........................................................................... 3
Restricted Elective (1) .................................................................................... 3

FOURTH YEAR

Autumn Semester
IAED 390  Summer Practice II .................................................................
IAED 401  Interior Design Studio V .............................................................. 6
IAED 415  Modular Interior Systems ............................................................. 3
IAED 417  Interior Design Documentation .................................................. 3
Restricted Elective (2) .................................................................................... 6

Spring Semester
IAED 402  Interior Design Studio VI ............................................................ 9
IAED 418  Interior Design: Professional Practice ....................................... 3
Restricted Elective (2) .................................................................................... 6

ELECTIVES
IAED 315  Computerized Presentation Techniques ...................................... 3
IAED 316  Computer Applications .................................................................. 3
IAED 365  Places/Memories .......................................................................... 3
IAED 391  Special Topics in Interior Design I .............................................. 3
IAED 392  Special Topics in Interior Design II .............................................. 3
IAED 393  Visionary and Future Environments .......................................... 3
IAED 395  Experimental Drawing ................................................................ 3
IAED 397  Color Theory and Applications .................................................. 3
IAED 424  Experience of Space and Place .................................................... 3
IAED 431  Environmental Management ..................................................... 3
IAED 462  Contemporary Architecture ......................................................... 3
IAED 463  History of Furniture ................................................................... 3
IAED 464  History of Furniture Production ................................................ 3
IAED 471  Interior Analysis Systems ............................................................ 3
IAED 483  Housing Typologies .................................................................... 3
IAED 485  Design Methodology .................................................................. 3
IAED 491  Current Issues in Interior Design I ............................................. 3
IAED 492  Current Issues in Interior Design II .......................................... 3
IAED 495  Public Interiors ............................................................................. 3
FA 205  Figure Drawing I .............................................................................. 3
FA 206  Figure Drawing II ............................................................................. 3
FA 211  Introduction to Painting I ............................................................... 3
FA 212  Introduction to Painting II ............................................................... 3
FA 215  Introduction to Sculpture I ............................................................... 3
FA 216  Introduction to Sculpture II ............................................................... 3
FA 305  Advanced Drawing I ......................................................... 3
FA 306  Advanced Drawing II ......................................................... 3
FA 467  Curatorial Studies I .......................................................... 3
FA 468  Curatorial Studies II .......................................................... 3
FA 471  Special in Contemporary Art I ............................................. 3

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. Admission 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

FIRST YEAR

Autumn Semester
IAED 501  Graduate Studio I .......................................................... 3
IAED 511  Research Methods I ......................................................... 3
IAED 543  Environmental Analysis I .................................................. 3
IAED 551  Environmental Geometry and Structure ................................ 3
IAED 561  History of Theory and Criticism ....................................... 3
IAED 571  Lighting and Color ........................................................... 3
IAED 573  Computer Programming .................................................... 3
IAED 583  Design Principles and Theories .......................................... 3
IAED 587  Spatial Practices ............................................................... 3

Spring Semester
IAED 502  Graduate Studio II .......................................................... 3
IAED 512  Statistical Analysis ............................................................. 3
IAED 514  Research Methods II ......................................................... 3
IAED 524  Construction of Design as Social Practice ............................ 3
IAED 531  Axiology and Ethics of Building ....................................... 3
IAED 542  Environmental Factors ....................................................... 3
IAED 544  Environmental Analysis II .................................................. 3
IAED 562  Historical Component in Contemporary Environment ........... 3
IAED 572  Building Safety ............................................................... 3
IAED 574  Art, Science and Technology .............................................. 3
IAED 576  Computers in Design and Architecture ............................... 3
IAED 578  Computer Modeling in Design .......................................... 3
SECOND YEAR

IAED 590  Research Topics ................................................................. -
IAED 599  Master's Thesis ................................................................. -

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, Prerequisite: FA 102. Aut (B. Güner, A. Küçük, M. Öztürk, B. Tokman, E. E. Türkkan, V. Ş. Uysal) Spr (M. Öztürk)

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, Prerequisite: IAED 201. Spr (B. Güner, A. Küçük, M. Öztürk, B. Tokman, E. E. Türkkan, V. Ş. Uysal)

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. Aut (A. Sagun, Ş. Taşlı Pektaş) Spr (A. Sagun, Ş. Taşlı Pektaş)

IAED 221  Human Factors
Investigation of human factors and dimensions as a determinant in the design of interior environments. Credit units: 3. 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. Aut (İ. Başa, A. Sagun, S. E. Ural)

IAED 244  Building Performance: Physical Factors
An introduction to problems related to the thermal, luminous, and acoustic performance of interiors in terms of comfort, efficiency, and economy. Credit units: 3. Spr (C. Yener)

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

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, Prerequisite: IAED 251. Spr (T. Kayasü, Ş. Taşlı Pektaş)

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, Ommiad, Abbaside and Seljuk civilizations in the East are particular areas of study. Credit units: 3. Aut (G. Baydar, S. Özalğolu)

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. Spr (G. Baydar, S. Özalğolu)

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. 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, Prerequisite: IAED 202. Aut (Ş. Aybar, N. Çarkacı, O. Demirbaş, Ç. İmamoğlu, B. Şenyapılı, L. Tümer) Spr (Ş. Aybar)

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, Prerequisite: IAED 301. Spr (Ş. Aybar, N. Çarkacı, O. Demirbaş, Ç. İmamoğlu, B. Şenyapılı, L. Tümer)

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, 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, 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, Prerequisite: IAED 311. Aut (B. Şenyapılı) Spr (B. Şenyapılı)

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. Aut (Ç. İmamoğlu, N. Kural) Spr (Ç. İmamoğlu, N. Kural)

IAED 341  Building Performance: Codes
Accident prevention in buildings, measures necessary for special user groups such as the elderly and the handicapped, fire safety and hygiene will be discussed. Credit units: 3. 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. 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, 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.

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, Prerequisite: IAED 351. Spr (S. Altay)

IAED 390  Summer Practice II
The aim of this summer practice is to give the student experience in the organization and working of an architecture/interior architecture/design office. The student is expected to make observations on the project developing order, project application and designer/client relationships in a private or institutional design office. The minimum time for this practice is 4 weeks. Credit units: None. 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 self conduct and research capabilities in theoretical issues to justify proposed design solutions. Credit units: 3. Aut (G. Baydar) Spr (G. Baydar)
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. Spr (Staff)*

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.*

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. Spr (S. 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, Prerequisite: IAED 302. Aut (S. Altay, İ. Basa, Z. Genç, T. Kayasü, Y. Sağdıç, T. Yardımcı)*

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, Prerequisite: IAED 401. Spr (S. Altay), Basa, Z. Genç, T. Kayasü, T. Yardımcı)*

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, 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. Aut (N. Çarkacı)*

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. Spr (N. Çarkacı)*

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, Prerequisite: IAED 322.*

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.*

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. 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. Spr (İ. Basa)*

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. Aut (E. E. Türkkan) Spr (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. 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.

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 
development of their design skills. Credit units: 3. Aut (Y. Söğücü)

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. (MÖztürk)

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. 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. Aut (H. Demirkan, 
M. Pultar)

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. Prerequisite: IAED 501. Spr (H. Demirkan, M. Pultar)

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. 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. Spr (M. Pultar)

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. 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.

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: 
Technical, socio-cultural and percepto-cognitional values in building. Building ethics: Building codes, specific-
ifications and standards; the performance approach; healthy and green building concepts. Cultural processes: 
Enculturation, acculturation and criticism in building. Credit units: 3.

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.
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.

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.

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.

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. Aut (C. Yener)

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. Spr (Staff)

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.

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.

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.

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. 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.

IAED 590  Research Topics
Credit units: None. Aut (Staff) Spr (Staff)

IAED 599  Master's Thesis
Credit units: None. Aut (Staff) Spr (Staff)
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**

<table>
<thead>
<tr>
<th>Autumn Semester</th>
<th>Spring Semester</th>
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<tbody>
<tr>
<td>GE 100 Orientation</td>
<td>FA 102 Basic Design II</td>
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<tr>
<td>FA 101 Basic Design I</td>
<td>FA 104 Drawing II</td>
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<tr>
<td>FA 103 Drawing I</td>
<td>FA 132 Technical Drawing and Lettering II</td>
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<tr>
<td>FA 131 Technical Drawing and Lettering I</td>
<td>FA 172 Introduction to Art and Culture II</td>
</tr>
<tr>
<td>FA 171 Introduction to Art and Culture I</td>
<td>ENG 102 English and Composition II</td>
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<td>ENG 101 English and Composition I</td>
<td>TURK 102 Turkish II</td>
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**SECOND YEAR**

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<tr>
<th>Autumn Semester</th>
<th>Spring Semester</th>
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<tbody>
<tr>
<td>LAUD 190 Summer Practice I</td>
<td>LAUD 201 Design Studio I</td>
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<tr>
<td>LAUD 201 Design Studio I</td>
<td>LAUD 221 Introduction to Urban Concepts</td>
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<td>LAUD 241 Plant Material I</td>
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<td>LAUD 241 Plant Material I</td>
<td>LAUD 251 Techniques and Materials of Landscape and Urban Environment I</td>
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<td>LAUD 261 History of Landscape and Urban Environment I</td>
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### Spring Semester

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<tr>
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<td>LAUD 212</td>
<td>Computers and Geometry</td>
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<tr>
<td>LAUD 242</td>
<td>Plant Material II</td>
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<td>LAUD 252</td>
<td>Techniques and Materials of Landscape and Urban Environment II</td>
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<td>HIST 202</td>
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### Autumn Semester

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<td>LAUD 311</td>
<td>Computer Aided Design</td>
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<td>LAUD 351</td>
<td>Techniques and Materials of Landscape and Urban Environment III</td>
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<td>Analysis of Urban Environment I</td>
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### Spring Semester

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<tr>
<td>LAUD 302</td>
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<tr>
<td>LAUD 322</td>
<td>People and Environment</td>
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<tr>
<td>LAUD 342</td>
<td>Planting Design</td>
<td>3</td>
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<tr>
<td>LAUD 372</td>
<td>Analysis of Urban Environment II</td>
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### Autumn Semester

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<td>Design Studio V</td>
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<tr>
<td>LAUD 417</td>
<td>Contract Documents</td>
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<td>LAUD 471</td>
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<td></td>
<td>Restricted Elective (2)</td>
<td>6</td>
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</tbody>
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### Spring Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>LAUD 402</td>
<td>Senior Design Studio</td>
<td>6</td>
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<tr>
<td>LAUD 404</td>
<td>Senior Design Research</td>
<td>3</td>
</tr>
<tr>
<td>LAUD 418</td>
<td>Professional Practice</td>
<td>3</td>
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<td>Restricted Elective (2)</td>
<td>6</td>
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### ELECTIVES

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>LAUD 312</td>
<td>Advanced Modelling Techniques in C.A.D</td>
<td>3</td>
</tr>
<tr>
<td>LAUD 324</td>
<td>Morphology and Typology of Urban Spaces</td>
<td>3</td>
</tr>
<tr>
<td>LAUD 362</td>
<td>Making of Urban Landscape</td>
<td>3</td>
</tr>
<tr>
<td>LAUD 421</td>
<td>Realization of Urban Projects</td>
<td>3</td>
</tr>
<tr>
<td>LAUD 432</td>
<td>Structuring and Infrastructuring in Urban Zones</td>
<td>3</td>
</tr>
<tr>
<td>LAUD 441</td>
<td>Planting Plans</td>
<td>3</td>
</tr>
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<td>LAUD 442</td>
<td>Interior Planting Design</td>
<td>3</td>
</tr>
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<td>LAUD 461</td>
<td>Occupancy in Urban Areas</td>
<td>3</td>
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<td>LAUD 472</td>
<td>Recent Issues in Human Geography</td>
<td>3</td>
</tr>
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<td>LAUD 474</td>
<td>Space, Culture and Identity</td>
<td>3</td>
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<td>LAUD 475</td>
<td>Cinema and Space</td>
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<td>LAUD 481</td>
<td>Landscape Ecology</td>
<td>3</td>
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<td>LAUD 482</td>
<td>Nature Conservation and Tourism</td>
<td>3</td>
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<tr>
<td>LAUD 483</td>
<td>Environment Philosophy and Ethics</td>
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</table>

### COURSE DESCRIPTIONS

**UNDERGRADUATE COURSES**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>LAUD 190</td>
<td>Summer Practice I</td>
<td>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</td>
</tr>
</tbody>
</table>
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. Aut (E. O. Inciçiğlu) Spr (E. O. Inciçiğlu)

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, Prerequisite: FA 102. Aut (K. Arapçiğlu, B. D. Güzer)

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, Prerequisite: LAUD 201. Spr (D. Altay, B. D. Güzer)

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. 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. 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. 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. 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. Aut (B. D. Güzer)

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. Spr (B. D. Güzer)

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. Aut (S. Teber)

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. Spr (S. Teber)

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. Aut (E. O. Inciçiğlu) Spr (E. O. Inciçiğlu)
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, Prerequisite: LAUD
202. Aut (D. Altay, O. Nalbantoğlu)

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, Prerequisite: LAUD
301. Spr (O. Nalbantoğlu, S. Teber)

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

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. Spr (K.
Arapkırlıoğlu)

LAUD 324  Morphology and Typology of Urban Spaces
This elective course discusses and analyzes the physical principles, functions, relationships, and physical ele-
ments 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 elemen-
tary lexicon. Credit units: 3.

LAUD 324  Morphology and Typology of Urban Spaces
This elective course discusses and analyzes the physical principles, functions, relationships, and physical ele-
ments 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 elemen-
tary lexicon. Credit units: 3.

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. Spr (G. Çulcuoğlu)

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. Aut (B. D. Güzer)

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. Aut (S.
Teber)

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. 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. 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.**

**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. Aut (E. Olcintioğlu) Spr (E. O. İncirlioğlu)**

**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, Prerequisite: LAUD 302. Aut (G. Çulcuğlu, 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: None. Aut (G. Çulcuğlu, S. A. Tokol)**

**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. Spr (E. O. İncirlioğlu)**

**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. Aut (O. Nalbantlı) Spr (O. Nalbantlı)**

**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. Spr (O. Nalbantlı)**

**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. Spr (D. Altay)**

**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.**

**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.**

**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. Aut (G. Çulcuğlu)**
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.

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. Aut (A. Türkün)

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.

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.

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. Spr (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. Aut (K. Arapkriğlişu)

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. Spr (K. Arapkriğlişu)

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. Aut (K. Arapkriğlişu) Spr (K. Arapkriğlişu)
FACULTY OF BUSINESS ADMINISTRATION

Kürşat Aydoğan, Ph.D., Dean
Erdal Erel, Ph.D., Asst. Dean
Dilek Önkül, Ph.D., Asst. Dean

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

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

Nazlı Akman, Instructor

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

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

Zahide Aygün Karakitapoğlu, 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

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

Zeynep Gürin, Adjunct Instructor

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

İsmail İpek, Instructor

Can Şimga Muğan, Assistant Professor

Süleyman Tuluğ Ok, Instructor

Hişım Öncül, Instructor

Zeynep Önder, Assistant Professor

Dilek Önal, Associate Professor

Özlem Özgü, Instructor

Süheyla Özyıldırım, Assistant Professor

Anjariitta Rantanen, Instructor

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

Turgay Saracoğlu, Instructor

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

Seçil Tunçalp, Visiting Professor
Frederick Woolley, Visiting Assistant Professor

Ayadin Yüksel, Assistant Professor

PART-TIME ACADEMIC STAFF

Doğan Cansızlar, Ph.D., Istanbul University, 2000.
Coşkun Dolanbay, B.S., Hacettepe University, 1997.
Doğan Nadi Leblebici, Ph.D., Hacettepe University, 1996.
Murat Mercan, Ph.D., University of Florida, 1989.
Ekrem Pakdemirli, Ph.D., Imperial College, 1967.
Banu Sultanoglu, B.S., Bilkent University, 1996.
Emin Veral, M.S., Cornell University, 1956.
DEPARTMENT OF MANAGEMENT


Part-time: D. Cansızlar, C. Dolanbay, D. N. Leblebici, M. Mercan, E. Pakdemirli, B. Sultanoğlu, 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

FIRST YEAR

**Autumn Semester**
- MATH 105 Introduction to Calculus I ................................................. 4
- GE 100 Orientation ........................................................................... 1
- ECON 101 Introduction to Economics I ............................................ 3
- ENG 101 English and Composition I ................................................. 3
- SOC 101 Introduction to Sociology ................................................... 3
- TURK 101 Turkish I ......................................................................... 2
- HCIV 101 History of Civilization I .................................................... 3

**Spring Semester**
- MATH 106 Introduction to Calculus II ............................................... 4
- ECON 102 Introduction to Economics II ........................................... 3
- ENG 102 English and Composition II ................................................. 3
- PSYC 102 Introduction to Social Psychology .................................... 3
- TURK 102 Turkish II ....................................................................... 2
- HCIV 102 History of Civilization II ................................................... 3

SECOND YEAR

**Autumn Semester**
- MAN 201 Introduction to Business .................................................. 3
- MAN 213 Principles of Financial Accounting ..................................... 4
- MATH 227 Introduction to Linear Algebra ......................................... 3
- CS 121 Introduction to Computing for Social Sciences ...................... 3
- ECON 221 Introduction to Probability and Statistics I ..................... 3
- HIST 201 History of Turkish Republic I .......................................... 2

**Spring Semester**
- MAN 256 Introduction to Management Science .................................. 3
- MAN 262 Organizational Behavior ................................................... 3
- CS 122 Introduction to Programming for Social Sciences ............... 3
- ECON 222 Introduction to Probability and Statistics II ................... 3
- ENG 206 Business Communications ................................................ 2
- HIST 202 History of Turkish Republic II ........................................ 2
THIRD YEAR

**Autumn Semester**
- MAN 300 Business Law .......................................................... 3
- MAN 321 Corporate Finance .................................................... 3
- MAN 335 Fundamentals of Marketing ....................................... 3
- MAN 341 Production Management ........................................... 3
- MAN 361 Organization Theory ................................................. 3

**Spring Semester**
- MAN 312 Managerial Accounting ........................................... 3
- MAN 322 Money and Banking .................................................. 3
- MAN 336 Marketing Management ............................................. 3
- MAN 342 Production Planning, Scheduling and Control ............... 3
- Elective(1) ............................................................................ 3

FOURTH YEAR

**Autumn Semester**
- MAN 401 Managerial Economics ............................................ 3
- MAN 403 International Business ............................................. 3
- ENG 403 Business Communication ......................................... -
- Elective(3) ............................................................................ 9

**Spring Semester**
- MAN 406 Business Strategy .................................................. 3
- Elective(4) ............................................................................ 12

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

**ELECTIVES**
- MAN 302 Business Forecasting .............................................. 3
- MAN 332 Marketing Strategy .................................................. 3
- MAN 352 Management Information Systems ............................ 3
- MAN 404 Investment Analysis ................................................ 3
- MAN 409 Special Topics in Business Administra. ..................... 3
- MAN 414 Auditing .................................................................. 3
- MAN 416 Financial Statement Analysis .................................... 3
- MAN 421 Capital Markets and Institutions ............................... 3
- MAN 422 International Finance ............................................. 3
- MAN 423 Financial Modeling .................................................. 3
- MAN 424 Risk Management ................................................... 3
- MAN 429 Special Topics in Finance ......................................... 3
- MAN 431 Marketing Research ................................................ 3
- MAN 432 Consumer Behavior ............................................... 3
- MAN 433 International Marketing .......................................... 3
- MAN 434 Advertising Management ........................................ 3
- MAN 436 Services Marketing .................................................. 3
- MAN 437 Retail Management .................................................. 3
- MAN 442 Service Operations Management ............................. 3
- MAN 443 Operations Strategy ................................................ 3
- MAN 445 Total Quality Management ...................................... 3
- MAN 446 Supply Chain Management ...................................... 3
- MAN 451 Decision Analysis .................................................... 3
- MAN 457 Information Systems Planning ................................. 3
- MAN 461 Organization Development ...................................... 3
- MAN 462 Human Resources Management ............................... 3
- MAN 466 Management Skills ................................................. 3
- MAN 469 Special Topics in Management .................................. 3
- MAN 471 Motivation and Leadership ...................................... 3
- MAN 474 European Union and Turkey: Trade and Policies ....... 3
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

**Autumn Semester**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>MAN 511</td>
<td>Accounting</td>
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</tr>
<tr>
<td>MAN 555</td>
<td>Probability and Statistics</td>
<td>3</td>
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<td>MAN 557</td>
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**Spring Semester**

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<td>MAN 532</td>
<td>Marketing Management</td>
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<td>Production and Operations Management</td>
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#### SECOND YEAR

**Autumn Semester**

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<td>MAN 548</td>
<td>Quality Management</td>
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**ELECTIVES**

**Finance**

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<td>Managerial Accounting</td>
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<td>MAN 523</td>
<td>Financial Institutions and Markets</td>
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<td>Investment Analysis</td>
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<td>International Finance</td>
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<td>MAN 571</td>
<td>Research Methods in Business</td>
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<td>MAN 577</td>
<td>Financial Intermediation</td>
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<td>MAN 583</td>
<td>Financial Modeling and Applications</td>
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**Marketing**

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<td>MAN 534</td>
<td>Marketing Strategy</td>
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<td>Advertising Management</td>
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<td>MAN 539</td>
<td>Consumer Behavior</td>
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**Organizational Behavior**

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**Quantitative Methods**

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<td>Manufacturing Strategy</td>
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<td>Procurement and Inventory Systems</td>
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<td>Management Information Systems</td>
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**International Business**

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<td>MAN 518</td>
<td>Risk Management</td>
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<td>MAN 536</td>
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<td>MAN 565</td>
<td>Global Competition and Strategy</td>
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<td>IR 530</td>
<td>History and Politics in the Balkans</td>
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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
MAN 557  Decision Science ................................................. 3
IE 523  Probabilistic Analysis ............................................. 3
ECON 501  Economics I ................................................... 3
ECON 515  Mathematics for Economists I ................................ 3
Elective(s) ........................................................................ -

Spring Semester
MAN 542  Production and Operations Management ..................... 3
IE 521  Stochastic Processes ................................................. 3
ECON 510  Probability and Statistics II .................................. 3
ECON 516  Mathematics for Economists II ................................. 3
Elective(s) ........................................................................ -

SECOND YEAR

Autumn Semester
MAN 599  Master's Thesis Project ............................................ -
MAN 607  Philosophy and Epistemology of Scientific Inquiry .......... 3
IE 513  Linear Programming .................................................. 3
Elective(s) ........................................................................ -
Distribution Courses if applicable ....................................... -

Spring Semester
MAN 599  Master's Thesis Project ............................................ -
MAN 605  Qualitative Research ............................................... 3
Elective(s) ........................................................................ -
Distribution Courses if applicable ....................................... -

Ph.D. Program in Operations Management and Decision Sciences

FIRST YEAR

Autumn Semester
MAN 593  Research Paper I .................................................... -
MAN 607  Philosophy and Epistemology of Scientific Inquiry .......... 3
IE 513  Linear Programming .................................................. 3
IE 523  Probabilistic Analysis ................................................. 3
ECON 515  Mathematics for Economists I ................................ 3

Spring Semester
MAN 593  Research Paper I .................................................... -
IE 521  Stochastic Processes ................................................. 3
ECON 516  Mathematics for Economists II ................................. 3
Elective(s) ........................................................................ -

SECOND YEAR

Autumn Semester
MAN 594  Research Paper II ................................................... -
MAN 683  Directed Readings in Management I ............................. 3
Elective(s) ........................................................................ -

Spring Semester
MAN 594  Research Paper II ................................................... -
MAN 655  Advanced Statistics .................................................. 3
MAN 684  Directed Readings in Management II ............................. 3
IE 524  Simulation ................................................................. 3
IE 525  Advanced Statistics .................................................... 3
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SECOND YEAR

Autumn Semester
MAN 631 Marketing Theory ........................................... 3
MAN 651 Decision Analysis ........................................... 3
MAN 683 Directed Readings in Management I ...................... 3

Spring Semester
MAN 634 Advanced Consumer Behavior Theory .................... 3
MAN 684 Directed Readings in Management II ...................... 3

THIRD YEAR

Autumn Semester
MAN 699 Ph.D. Dissertation ........................................... -

Spring Semester
MAN 699 Ph.D. Dissertation ........................................... -

FOURTH YEAR

Autumn Semester
MAN 699 Ph.D. Dissertation ........................................... -

Spring Semester
MAN 699 Ph.D. Dissertation ........................................... -

M.S. Program in Finance

FIRST YEAR

Autumn Semester
MAN 525 Financial Economics ........................................ 3
MAN 557 Decision Science ............................................. 3
ECON 509 Probability and Statistics I ............................... 3
ECON 515 Mathematics for Economists I ............................ 3

Spring Semester
ECON 510 Probability and Statistics II .............................. 3
ECON 516 Mathematics for Economists II ............................ 3
Electives (2) .................................................................. -

SECOND YEAR

Autumn Semester
MAN 599 Master's Thesis Project ..................................... -
MAN 607 Philosophy and Epistemology of Scientific Inquiry .... 3
ECON 503 Microeconomic Theory I .................................. 4
Elective ....................................................................... -
Distribution Courses if applicable .................................. -

Spring Semester
MAN 599 Master's Thesis Project ..................................... -
Distribution Courses if applicable .................................. -

Ph.D. Program in Finance

FIRST YEAR

Autumn Semester
MAN 525 Financial Economics ........................................ 3
MAN 593 Research Paper I .............................................. -
MAN 607 Philosophy and Epistemology of Scientific Inquiry .... 3
ECON 509 Probability and Statistics I ............................... 3
ECON 515 Mathematics for Economists I ............................ 3
Spring Semester
MAN 528 Stochastic Models in Finance ........................................ 3
MAN 593 Research Paper I ........................................................... -
ECON 510 Probability and Statistics II ........................................ 3
ECON 516 Mathematics for Economists II ..................................... 3

SECOND YEAR

Autumn Semester
MAN 594 Research Paper II ......................................................... -
MAN 683 Directed Readings in Management I .................................. 3
ECON 503 Microeconomic Theory I .............................................. 4
ECON 511 Econometrics I ............................................................. 3

Spring Semester
MAN 594 Research Paper II ......................................................... -
MAN 655 Advanced Statistics ....................................................... 4
MAN 684 Directed Readings in Management II ................................ 3
Elective(s) ....................................................................................... -

THIRD YEAR

Autumn Semester
MAN 699 Ph.D. Dissertation .......................................................... -
Elective(s) ....................................................................................... -
Distribution Courses if applicable .................................................. -

Spring Semester
MAN 699 Ph.D. Dissertation .......................................................... -
Elective(s) ....................................................................................... -
Distribution Courses if applicable .................................................. -

FOURTH YEAR

Autumn Semester
MAN 699 Ph.D. Dissertation .......................................................... -

Spring Semester
MAN 699 Ph.D. Dissertation .......................................................... -

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. Aut (Z. Girgin, S. T. Ok)

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. Aut (N. Akman, C. Ş. Muğan,
S. T. Ok) Spr (S. T. Ok)

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. Aut (Z. Önder)

MAN 256 Introduction to Management Science
A general overview of operations research with selected applications from management systems and interdisci-
plinary areas. The methodology of mathematical modeling and its relation to problems in industrial, commercial
FACULTY OF BUSINESS ADMINISTRATION

and public systems. Introduction to linear programming: the simplex method, duality, sensitivity analysis and related topics. **Credit units: 3, Prerequisite: MATH 227. Spr (E. Erel, Y. Günlaz)**

**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, Aut (Z. Aygün Karakitaplı) Spr (F. Woolley)**

**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, 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. Spr (D. Önkal)**

**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, Prerequisite: MAN 212 or MAN 213; MAN 212. Spr (N. Akman)**

**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, Prerequisite: MAN 211 or MAN 213 and ECON 102. Aut (L. Akdeniz, A. Altay-Salih, Z. Önder, A. Yüksel) Spr (S. Caner, A. Yüksel)**

**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, Prerequisite: ECON 101; ECON 102 and ECON 222. Spr (L. Akdeniz, S. Özyıldırım)**

**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, Prerequisite: MAN 331 or MAN 335; MAN 331. Spr (S. Tunçalp)**

**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. Aut (B. Elihan)**

**MAN 335 Fundamentals of Marketing**
The course introduces the students to the fundamental concepts, tools and activities that comprise the marketing function. It surveys 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, Prerequisite: ECON 101 and ECON 102 and MAN 201. Aut (D. Thompson, S. Tunçalp)**

**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, Prerequisite: MAN 335. Spr (A. Ekici)**
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, Prerequisite: MAN 256. Aut (Y. Günsalay, 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, Prerequisite: MAN 341. Spr (E. Berk, D. Serel)

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, Prerequisite: MAN 253 and MAN 254.

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, Prerequisite: MAN 262. Aut (U. Berkman, 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, 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, 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, Prerequisite: MAN 321. Aut (A. Altay-Salih) Spr (Z. Önder)

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 specialty of a particular function or organizational level. Credit units: 3, Prerequisite: MAN 321 and MAN 331 and MAN 341. Spr (L. Tomruk)

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, Prerequisite: MAN 212 or MAN 213; MAN 212. Spr (B. Sultanoğlu)

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, Prerequisite: MAN 321 and ECON 222. Spr (C. Ş. Muğan)

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, 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, 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, Prerequisite: MAN 321 and ECON 221. Spr (A. Yüksel)

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. Spr (A. Altay-Salih)

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, Prerequisite: MAN 331 or consent of instructor.

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, Prerequisite: MAN 331 or consent of instructor. Aut (Ö. 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, Prerequisite: MAN 331 and MAN 332 or consent of instructor. Spr (S. Tunçalp)

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, Prerequisite: MAN 331 or consent of instructor. Spr (Ö. Sandıkçı)

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, 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, Prerequisite: MAN 331.

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, Prerequisite: MAN 341.

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, Prerequisite: ECON 222. Aut (M. Mercan)*

**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, 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.*

**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.*

**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, 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, Prerequisite: MAN 262 and MAN 361 or consent of instructor.*

**MAN 463 Business and Economic Psychology**
The aim of this course is to present psychological theory and research findings that are relevant to the practice of business consumer behavior. The course is based upon both an extensive literature from general and social psychology - e.g. personality, perception, learning, attitudes and information processing - and on more recent research in behavioral economics, decision science and marketing. *Credit units: 3.*

**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, 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.*

**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, Prerequisite: MAN 361. Aut (Z. Aygın Karakitapçı) Spr (Z. Aygın Karakitapçı)

MAN 472 International Business Law
This course deals with the legal problems of international business. Emphasis is put on international sales contracts, agency relations, transporting of goods, means of payment and securing credits, unfair competition and tortuous liability for products. Particular attention is also given to aspects of industrial property law, such as licensing is also agreements, patents and trademarks. Types of business organizations which might be used to conduct international business activities is examined. Finally, conflict solving, including the applicable law, international jurisdiction of courts, international arbitration and the enforcement of foreign judgements are discussed. Credit units: 3.

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. Spr (A. Rantanen)

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, Prerequisite: MAN 321 and MAN 322. Aut (S. Özyıldırım)

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.

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. Aut (E. Pakdemirli)

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, Prerequisite: MAN 321. Spr (Z. Önder)

GRADUATE COURSES

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. 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. Spr (U. Berkman)
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. **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. **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 person, convey the new realities of global competition. **Credit units:** 3.

MAN 509 International Business
This course deals with both changes in the World economy and responses to these changes at a national and firm level. In the first part of the course competition theory and the nature of competition in the world economy are discussed. The second part focuses on the role of nations, whereas the third part examines the strategies of the firm in international business. Finally, country strategy alternatives for Turkey are discussed. **Credit units:** 3. **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. **Aut (C. Ș. Muğan)**

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 relations to market and industry factors, time series behavior of earnings and forecasting models are also investigated. **Credit units:** 3.

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. **Spr (C. Ș. Muğan)**

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. **Spr (A. Altay-Salih)**

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. **Spr (K. Aydoğan)**

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, **Prerequisite:** MAN 522.

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, **Prerequisite:** MAN 522. **Aut (K. Aydoğan)**
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.

MAN 537 Technology and Culture
The focus of this course is on experience and meaning of information technology to users, the interface between information technology and culture/society. The course is organized around research projects the students design themselves. Qualitative research methodology is used. Credit units: 3.

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, Prerequisite: MAN 532.

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, Prerequisite: MAN 532. Aut (Ö. Sandıkçı)

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

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, Spr (E. Berk)

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, 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, 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, Aut (D. Serel)

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.

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, Spr (AO. Toy)

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, Prerequisite: Consent of instructor. Spr (M. Mercan)
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.  Aut (E. Berk)

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 interpretation. Development of 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.  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.

MAN 561  Human Behavior in Organizations  
The course deals with organizations and the people in them with a view to providing basic concepts, tools and skills in managing human resources in business organizations. Topics range from perception to decision-making, from formal and informal structures and processes to organizational design.  
Credit units: 3.  Aut (F. Woolley)

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.  Prerequisite: Consent of instructor.  Aut (D. N. Leblebici)  Spr (Staff)

MAN 567  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.  Aut (F. Woolley)

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.

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.  
Credit units: 3.

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.

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. Spr (A. Rantanen)**

**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 basic 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. Aut (C. Dolanbay)**

**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. Aut (S. Özyıldırım)**

**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. Prerequisite: MAN 522. Spr (A. Yüksel)**

**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 analysis, equity and debt financing vehicles. Real estate investment trusts and mortgage backed securities are also covered. **Credit units: 3. Prerequisite: MAN 522. Spr (Z. Önder)**

**MAN 593 Research Paper I**

**Credit units: None. Aut (Staff)**

**MAN 594 Research Paper II**

**Credit units: None. Aut (Staff)**

**MAN 598 MBA Project III**

**Credit units: 3.**

**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.**

**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.**

**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. 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. Spr (G. Ger)

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. 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.

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.

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.

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 marketizing 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. Students search for possible dissertation topics and develop a preliminary dissertation proposal. Credit units: 3.

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. Aut (D. Thompson)

MAN 639 Special Topics in Marketing
Credit units: 3.

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.

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. Aut (D. Onkal)

MAN 655 Advanced Statistics
The purpose of this course is to provide the principles and methods of a number of 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.

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.

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.

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.

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: 2.

MAN 682 Readings in Operations Management II
Continuation of MAN 681. Credit units: 2.

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. Spr (Staff)

MAN 684 Directed Readings in Management II
Continuation of MAN 683. Credit units: 3. Aut (Staff)

MAN 699 Ph.D. Dissertation
Credit units: None. Aut (Staff)
The Faculty of Economics, Administrative and Social Sciences comprises four academic departments:

- Economics
- History
- International Relations
- Political Science

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**

**Ilhan Akipek**, Adjunct Senior Lecturer  

**Nedim Alemdar**, Assistant Professor  

**Neil Arnwine**, Instructor  
Ph.D., Economics, Rice University, Houston, Texas, 1996. Macroeconomics, monetary economics and mathematical methods.

**Gülnur Aybet**, Assistant Professor (on leave)  
Ph.D., University of Nottingham, 1997. Security studies, European security.

**Ersel Aydınlı**, Assistant Professor  
Ph.D., McGill University, 2002. International relations theory, international security and globalisation.

**Muhammed Ayoob**, Visiting Professor  

**İlker Aytürk**, Instructor  

**Erdem Başcı**, Assistant Professor  
Ph.D., Economics, Bilkent University, 1995. Macroeconomic theory, general equilibrium theory.

**Sandrine Berges**, Instructor  

**Hakan Berument**, Assistant Professor  

**Hatice Pınar Bilgin**, Assistant Professor  

**Berrak Burçak**, Instructor  

**Gülriz Büken**, Instructor  
Ph.D., English Language and Literature, Hacettepe University, 1974.
Merih Celasun, Professor

Dilek Cindoğlu, Assistant Professor

Ümit Cizre, Associate Professor

Nur Bilge Criss, Assistant Professor

Alev Çınar, Assistant Professor

Aslı Çırağan, Assistant Professor
Ph.D., Political Science, Queen's University, 1996. Comparative politics.

Aygen Erdentüg, Associate Professor
Ph.D., Sociology, Hacettepe University, 1980. Cultural change, worker culture, political anthropology.

Aycan Eren, Instructor
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.

Ahmet Ertuğrul, Adjunct Assistant Professor

Tore Fougner, Instructor
Ph.D., Keele University. International political economy, critical IR/IPE-theory, globalisation, international business, global governance.

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.

Serdar S. Güner, Assistant Professor

Aylin Güney, Instructor

Kevin Hasker, Instructor

Banu Helvacıoğlu, Assistant Professor
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, Visiting Associate Professor
Ph.D., Moscow State University, 1974. Mathematical economics, game theory.
Ahmet İşduygu, Associate Professor (on leave)
Ph.D., Sociology, Australian National University, 1990. Social research, methodology, population studies.

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

Yüksel İnan, Senior Lecturer

Başak İnce, Instructor

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.

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

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

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

Sırrı Hakan Kırmılı, Associate Professor

Mustafa Kıbaroğlu, Assistant Professor
Ph.D., Bilkent University, 1996. Nuclear weapons, nuclear nonproliferation.

Edward Kohn, Assistant Professor

Wlodzimierz Korab-Karpowicz, Assistant Professor

Semih Koray, Visiting Professor
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.

Cadoc Leighton, Assistant Professor

Syed F. Mahmud, Visiting Associate Professor
Ph.D., Economics, McMaster University, 1986. Econometrics, applied econometrics, macroeconomics.

Sean McMeekin, Visiting Assistant Professor

Kıvılcım Metin, Associate Professor

Bilin Neyaptı, Assistant Professor
Ph.D., Economics, University of Maryland, 1997. Macroeconomics, monetary economics, institutional economics.
Çağla Ökten, Assistant Professor  

Ergun Özbudun, Professor  

Ümit Özlale, Assistant Professor  

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

Sergei Podbolotov, Instructor  

Efraim Podoksik, Assistant Professor  

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

Timothy Roberts, Assistant Professor  

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

Serdar Sayan, Associate Professor  
Ph.D., Economics, Ohio State University, 1992. General equilibrium analysis, international economics.

Selin Sayek Böke, Assistant Professor  

Faruk Selçuk, Associate Professor  

Duygu Sezer, Professor  

Hootan Shambayati, Visiting 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.

Engelbert Stockhammer, Visiting Assistant Professor  
Ph.D., University of Massachusetts, 2000. Macroeconomics, growth theory.

Norman Stone, Professor  

Zerrin Tandoğan, Instructor  

Fatma Taşkin, Associate Professor  

Orhan Tekelioğlu, Assistant Professor  
Ph.D., Sociology, Middle East Technical University, 1993. Social and political theory.
Ali Tekin, Instructor  
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  

Sübidey Togan, Professor  

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

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

Okan Üçer, Instructor  

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

Paul Williams, Assistant Professor  

William Wringe, Assistant Professor  

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

A. Erinc Yeldan, Professor  

Taner Yiğit, Assistant Professor  

Osman Zaim, Associate Professor  

**PART-TIME ACADEMIC STAFF**

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

Recep Yüksel Altuğ, B.Sc., Ankara University, 1968.

Zühtü Arslan, Ph.D., Law, Leicester University, 1996.

Ahsen Coşar, LL.B., Law, Istanbul University, 1974.

Sedat Çal, Ankara University, Faculty of Law, 1989.


Hıdır Çolpan, M.A., University of Exeter, 1981.

Gülün Egel, LL.M., European Community Law, Ankara University, 1996.


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

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

Onur Gökçe, Ambassador, B.S. Ankara University, Faculty of Political Science, 1962.

Cem Karadeği, M.A., Middle East Technical University, 1995.
GENERAL SOCIAL SCIENCE COURSES

**SOC 101 Introduction to Sociology**
Introduces students to the subject matter, major concepts, and theoretical approaches of sociology. Includes readings in the works of both classical and modern theorists. Emphasis is on social organization and stratification, community, power, social change. **Credit units: 3.** Aut (D. Çindoğlu, A. Eren, T. E. Erman, A. Kurtoğlu, Z. Önen, S. Pınar, A. Türkün)

**SOC 203 Sociology of the Family**
This course will be an analysis of the family as a social institution. Family organization, family structure, inheritance, sexual division of labor, and socialization within the family across various cultures will be the prime focus of study. The course will cover “traditional”, “modern”, and “alternative” family forms. The gendered role expectations present within marriage and family systems will be addressed, as well as, how current changes in social and economic contexts may lead to variations in family forms. Emphasis will be placed on how the emergence of women in the work force may be influencing the overall family system, especially with respect to men and children. **Credit units: 3.**

**SOC 205 Socialization and Development**
Using several theoretical perspectives, this course investigates the processes of socialization and personality formation through the life cycle. Emphasis is placed on the content, stages and agencies of socialization in a variety of social contexts. Discussion and analysis are based on social, social psychological and comparative data. A comprehensive coverage of cognitive development and social personality development for each stage of life will be undertaken. **Credit units: 3.** Aut (S. Pınar)

**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.** Spr (D. Çindoğlu, A. Eren, T. E. Erman, A. Kurtoğlu, Z. Önen, S. Pınar, A. Türkün)

**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.** Spr (S. Pınar)

**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.**

**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.**
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

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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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SECOND YEAR

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<td>MAN 213 Principles of Financial Accounting</td>
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<td>HIST 201 History of Turkish Republic I</td>
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**THIRD YEAR**

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<td>ECON 302 International Economics I</td>
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<td>ECON 351 Fiscal Economics I</td>
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**FOURTH YEAR**

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<td>ECON 412 History of Economic Thought II</td>
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**ELECTIVE COURSES**

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<td>ECON 211</td>
<td>Economic History</td>
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<tr>
<td>ECON 321</td>
<td>Financial Institutions and Markets</td>
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<td>ECON 323</td>
<td>Economics of Monetary Union</td>
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<td>ECON 352</td>
<td>Fiscal Economics II</td>
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<tr>
<td>ECON 405</td>
<td>Issues in Macroeconomics</td>
<td>3</td>
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<td>ECON 406</td>
<td>Issues in Macroeconomics</td>
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<td>ECON 407</td>
<td>Economics of Crises</td>
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<td>ECON 409</td>
<td>Contemporary Issues in Turkish Economy I</td>
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<tr>
<td>ECON 410</td>
<td>Contemporary Issues in Turkish Economy II</td>
<td>3</td>
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<tr>
<td>ECON 415</td>
<td>Mathematics for Economists I</td>
<td>3</td>
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<tr>
<td>ECON 416</td>
<td>Mathematics for Economists II</td>
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<tr>
<td>ECON 417</td>
<td>Environmental Economics I</td>
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<tr>
<td>ECON 421</td>
<td>General Equilibrium</td>
<td>3</td>
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<td>ECON 422</td>
<td>Time Series</td>
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<td>ECON 426</td>
<td>Applied Economic Analysis</td>
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<td>ECON 433</td>
<td>Industrial Economics I</td>
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<td>ECON 434</td>
<td>Industrial Economics II</td>
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<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>
<td>3</td>
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<td>ECON 443</td>
<td>Advanced Economic Theory</td>
<td>3</td>
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<td>ECON 453</td>
<td>Theories of Economic Growth and Development I</td>
<td>3</td>
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<tr>
<td>ECON 454</td>
<td>Theories of Economic Growth and Development II</td>
<td>3</td>
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<tr>
<td>ECON 455</td>
<td>Institutions and Development</td>
<td>3</td>
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<tr>
<td>ECON 458</td>
<td>Labor Market Economics</td>
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**ELECTIVE REQUIREMENTS**

*Applied Economics Requirement:* At least four electives to be chosen from the list of economics courses announced by the Department at the beginning of each academic year.
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 Department in principle does not admit students who plan to terminate their graduate studies with a Master's degree. Students obtain this degree in preparation for a Ph.D. degree. 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

**Autumn Semester**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ECON 503</td>
<td>Microeconomic Theory I</td>
<td>4</td>
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<tr>
<td>ECON 505</td>
<td>Macroeconomic Theory I</td>
<td>4</td>
</tr>
<tr>
<td>ECON 509</td>
<td>Probability and Statistics I</td>
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<tr>
<td>ECON 515</td>
<td>Mathematics for Economists I</td>
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<tr>
<td>ECON 599</td>
<td>Master's Thesis</td>
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**Spring Semester**

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<tr>
<th>Course</th>
<th>Title</th>
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<tr>
<td>ECON 504</td>
<td>Microeconomic Theory II</td>
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<tr>
<td>ECON 506</td>
<td>Macroeconomic Theory II</td>
<td>4</td>
</tr>
<tr>
<td>ECON 510</td>
<td>Probability and Statistics II</td>
<td>3</td>
</tr>
<tr>
<td>ECON 516</td>
<td>Mathematics for Economists II</td>
<td>3</td>
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</table>
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 examination. It is expected that admitted students will be adequately prepared in calculus, linear algebra, and statistics. (Also refer to the “Graduate Admissions” section in the introduction of this catalog for the general graduate admission requirements.)

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

A candidate for the doctorate 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

**Autumn Semester**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ECON 699 Ph.D. Dissertation</td>
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<tr>
<td>Graduate Electives(3)</td>
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**Spring Semester**

<table>
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<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
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#### SECOND YEAR*

**Autumn Semester**

<table>
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<th>Course</th>
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<tr>
<td>Graduate Elective</td>
<td>3</td>
</tr>
</tbody>
</table>
Spring Semester
ECON 699 Ph.D. Dissertation .......................................................... 3
Graduate Elective ........................................................................ 3

*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
ECON 511 Econometrics I ............................................................... 3
ECON 513 Game Theory I ............................................................... 3
ECON 517 Mathematical Economics I ........................................... 3
ECON 521 International Economics I .......................................... 3
ECON 531 Economic History I ....................................................... 3
ECON 551 Studies in Growth and General Equilibrium Modeling I ......................................................... 3
ECON 561 Topics in Microeconomic Theory I ............................... 3
ECON 563 Topics in Macroeconomic Theory I ............................. 3
ECON 571 Fiscal Economics I ....................................................... 3
ECON 575 Monetary Economics I ................................................ 3

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

*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.  Aut (R. Y. Altug, N. Arnwine, U. Korum, M. Polat, S. Sayek Böke, O.Üçer) Spr (Staff)

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.  Aut (N. Almendar) Spr (N. Arnwine, B. Neyaplı, Ü. Özlia, F. Selçuk, 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.  Spr (O.Üçer)

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.  Aut (N.Ö. Coşkun)
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. Spr (Staff)

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. Aut (Staff) Spr (Staff)

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, Prerequisite: ECON 101. Aut (K. Hasker, Ç. Ökten, Ü. Özıla, E. Stockhammer) 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, Prerequisite: ECON 102. Aut (N. Alemdar) Spr (N. Alemdar, H. Berument, B. Neyaptı)

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.

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, Prerequisite: ECON 221. Spr (T. Kara, S. F. Mahmud, A. Marasco, Ç. Ökten)

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

ECON 229  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. Aut (Staff) Spr (Staff)

ECON 301  Econometrics I
Introduces basic econometric techniques strongly emphasizing applications. Problems in estimating such economic variables as consumption-income-price relationships, money demand functions, and simulating economic models. Credit units: 3, Prerequisite: ECON 222 and ECON 101 and ECON 102. Aut (H. Berument, F. Selçuk, F. Taşkıncı)

ECON 302  Econometrics II
Theory and economic applications of the linear multiple regression model. Identification and structural estimation in simultaneous models. Analysis of economic policy and forecasting. Credit units: 3, Prerequisite: ECON 301. Aut (F. Selçuk) Spr (S. F. Mahmud, F. Taşkıncı, O. Zaim)

ECON 308  Forecasting
Quantitative and statistical techniques for forecasting and decision sciences. Credit units: 3, Prerequisite: ECON 222 or MATH 260.

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, Prerequisite: ECON 101. Aut (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, Prerequisite: ECON 201. Spr (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. Aut Ö. Altay)

ECON 331  International Economics I
Theory of international trade and applications in commercial policy. Credit units: 3, 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, Prerequisite: ECON 201. Spr (S. Sayek Böke)

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, Prerequisite: ECON 201. Aut (S. F. Mahmud, O. Zaim)

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, 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 epistemology; critical thinking on the economic rationale. Credit units: 3. Spr (H. Özel)

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. Aut (Staff)

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. 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, Prerequisite: ECON 202.

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. 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, 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, Prerequisite: ECON 102. Spr (F. Emil)

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, Prerequisite: ECON 201 and ECON 202. Aut (A. Erğrul, H. Özel)

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, Prerequisite: ECON 201 and ECON 202. Spr (A. Erğrul, H. Özel)
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. Spr (S. Koray)

ECON 417  Environmental Economics I
Analysis of environmental problems, cost-benefit analysis, techniques, costs of abatement. Credit units: 3, Prerequisite: ECON 101. Spr (Staff)

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, Prerequisite: ECON 201; ECON 202.

ECON 422  Time Series
Theory and applications of time-series models including stochastic processes, ARIMA processes, spectral analysis, and distributed lags. Credit units: 3, Prerequisite: ECON 301; ECON 302. Spr (F. Selçuk)

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, 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.

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, Prerequisite: ECON 201. Aut (Ç. Ökten)

ECON 434  Industrial Economics II
Continuation of ECON 433. Credit units: 3, Prerequisite: ECON 202. Spr (Ç. Ökten)

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, 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, Prerequisite: ECON 201 and ECON 202. Aut (E. Stockhammer)

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, 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, Prerequisite: ECON 201. Aut (T. Kara)
ECON 440 Game Theory II
Continuation of ECON 439 with emphasis on a cooperative games theory of fairness. **Credit units: 3.** 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. Prerequisite: ECON 201 and ECON 202.** Spr (N. Alemdar)

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. Prerequisite: ECON 201 and ECON 202.** Aut (A. E. Yeldan)

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. Prerequisite: ECON 201 and ECON 202.** Spr (A. E. Yeldan)

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, NGDs and diffusion of institutional structures via globalization. New development policy and structural adjustment reforms. **Credit units: 3.** Aut (B. Neyapti)

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. Prerequisite: ECON 201 and ECON 202.**

ECON 461 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 (in Turkish). **Credit units: 3.**

ECON 462 Law II
Regulation and de-regulation, financial markets and globalization of business. Access to world markets and related regulations (in Turkish). **Credit units: 3.**

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.**

**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.** Aut (S. Caner)

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.** Spr (Staff)

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

ECON 505 Macroeconomic Theory I

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, Prerequisite: ECON 505. Spr (E. Başçı)

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. Aut (O. Üçer)

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. Spr (M. Polat)

ECON 509 Probability and Statistics I

ECON 510 Probability and Statistics II

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. Aut (T. Yiğit)

ECON 512 Econometrics II

ECON 513 Game Theory I
Game theoretic approaches to economics, strategic decision-making, discussion of contemporary issues in economic design. Credit units: 3.

ECON 514 Game Theory II
Continuation of ECON 513. Credit units: 3. Prerequisite: ECON 504.

ECON 515 Mathematics for Economists I

ECON 516 Mathematics for Economists II
The contraction mapping theorem. Theorem of the maximum. Dynamic programming under certainty. Measure theory and integration. Stochastic dynamic programming. Modes of convergence and laws of large numbers. Credit units: 3, Prerequisite: ECON 515. Spr (S. Koray)

ECON 517 Mathematical Economics I
Mathematical theory of general economic equilibrium. Credit units: 3, 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, Prerequisite: ECON 517. Spr (F. Hüseyin)

ECON 521  International Economics I
Theory of international trade and applications in commercial policy. Credit units: 3, 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, Prerequisite: ECON 506 and 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.

ECON 532  Economic History II
Continuation of ECON 531. Credit units: 3, 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, Malthus, Ricardo, Marx, Mill, Walras, Marshall, Keynes and Schumpeter. Credit units: 3.

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.

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.

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, 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, 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, Prerequisite: and consent of the instructor. Aut (S. Sayek Böke)

ECON 564  Topics in Macroeconomic Theory II
Continuation of ECON 563. Credit units: 3, Prerequisite: ECON 563. Spr (M. Celasun)

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, 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, Prerequisite: ECON 571.

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.

ECON 599  Master’s Thesis
Credit units: None. Aut (Staff) Spr (Staff)

ECON 699  Ph.D. Dissertation
Credit units: None. Aut (Staff) Spr (Staff)
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.
### Ottoman History Option

#### Preparatory Year

**Autumn Semester**
- HIST 401 Ottoman Turkish and Paleography I ........................................... 4
- HIST 411 Ottoman History: 1300-1600 ....................................................... 3
- HIST 413 Byzantine History I: 324-1025 .................................................... 3
- HIST 417 Medieval Europe (500-1500) ...................................................... 3
- HIST 431 History of the United States until the Reconstruction ................... 3
- Graduate Elective (1) ................................................................. 3

**Spring Semester**
- HIST 402 Ottoman Turkish and Paleography II ......................................... 4
- HIST 412 Ottoman History: 1600-1914 ....................................................... 3
- HIST 414 Byzantine History II: 1025-1453 .................................................. 3
- HIST 418 Modern Europe (1453-1914) ..................................................... 3
- HIST 432 History of the United States from the Reconstruction ................... 3
- Elective (2) ........................................................................... 6

#### First Year

**Autumn Semester**
- HIST 501 Ottoman Paleography I ............................................................. 4
- HIST 507 Methodology in History I ............................................................ 3
- HIST 511 Ottoman Social and Economic History I ...................................... 3
- Graduate Elective (2) ................................................................. 6

**Spring Semester**
- HIST 502 Ottoman Paleography II ............................................................. 4
- HIST 508 Methodology in History II ........................................................... 3
- HIST 520 Sources of Ottoman Social and Economic History II ................... 3
- Graduate Elective (3) ................................................................. 9

#### Second Year

**Autumn Semester**
- HIST 591 Seminar in Ottoman History I ................................................. -
- HIST 599 Master's Thesis ................................................................. -

**Spring Semester**
- HIST 592 Seminar in Ottoman History II ................................................. -
- HIST 599 Master's Thesis ................................................................. -

### European History Option

#### Preparatory Year

**Autumn Semester**
- HIST 411 Ottoman History: 1300-1600 ....................................................... 3
- HIST 413 Byzantine History I: 324-1025 .................................................... 3
- HIST 417 Medieval Europe (500-1500) ...................................................... 3
- HIST 431 History of the United States until the Reconstruction ................... 3
- HIST 481 Latin for Medieval and Early Modern History I .......................... 3

**Spring Semester**
- HIST 412 Ottoman History: 1600-1914 ....................................................... 3
- HIST 414 Byzantine History II: 1025-1453 .................................................. 3
- HIST 418 Modern Europe (1453-1914) ..................................................... 3
- HIST 432 History of the United States from the Reconstruction ................... 3
- HIST 482 Latin for Medieval and Early Modern History II .......................... 3
# FIRST YEAR

## Autumn Semester

- **HIST 507** Methodology in History I .......................................................... 3
- **HIST 523** England (1300-1600): History and Texts ................................ 3
  
## Spring Semester

- **HIST 482** Latin for Medieval and Early Modern History II ........................ 3
- **HIST 508** Methodology in History II .......................................................... 3
  
## SECOND YEAR

## Autumn Semester

- **HIST 599** Master's Thesis ........................................................................... -
  - Graduate Elective (1) ............................................................................... 3

## Spring Semester

- **HIST 599** Master's Thesis ........................................................................... -
  - Graduate Elective (1) ............................................................................... 3

# AMERICAN HISTORY OPTION

## PREPARATORY YEAR

## Autumn Semester

- **HIST 411** Ottoman History: 1300-1600 ......................................................... 3
- **HIST 417** Medieval Europe (500-1500) ......................................................... 3
- **HIST 431** History of the United States until the Reconstruction ................... 3

## Spring Semester

- **HIST 412** Ottoman History: 1600-1914 ......................................................... 3
- **HIST 418** Modern Europe (1453-1914) ......................................................... 3
- **HIST 420** US Historiography ....................................................................... 3
- **HIST 432** History of the United States from the Reconstruction ................. 3
  
## FIRST YEAR

## Autumn Semester

- **HIST 435** History of US Foreign Relations: The Cold War and Beyond ....... 3
- **HIST 507** Methodology in History I ............................................................. 3
- **HIST 575** US Labor and Immigration History ............................................. 3
  
## Spring Semester

- **HIST 420** US Historiography ....................................................................... 3
- **HIST 508** Methodology in History II .......................................................... 3
- **HIST 532** Social and Economic History of the United States II .................. 3
  
## SECOND YEAR

## Autumn Semester

- **HIST 599** Master's Thesis ........................................................................... -
  - Graduate Elective (1) ............................................................................... 3

## Spring Semester

- **HIST 599** Master's Thesis ........................................................................... -
  - Graduate Elective (1) ............................................................................... 3
## GRADUATE ELECTIVES
### OTTOMAN HISTORY OPTION

### Autumn Semester
- HIST 313 | Classical Arabic I ......................................................... 3
- HIST 315 | Advanced Classical Arabic I ............................................. 3
- HIST 513 | Intellectual Movements in the Tanzimat Period I ...................... 3
- HIST 519 | Sources of Ottoman Social and Economic History I .................... 3
- HIST 525 | Transition from Late Byzantium to Early Ottoman ................... 3
- HIST 531 | Social and Economic History of the United States I .................. 3
- HIST 533 | Religion: East and West (1350-1850) .................................. 3
- HIST 535 | Abdulhamid: Reformer or Reactionary .................................. 3
- HIST 547 | Comparative History of Elites: Political and Religious I ............ 3
- HIST 563 | Islamic Culture in the Ottoman Balkans, 1400-1600 .................. 3
- EDEB 421 | Preliminary Persian I .......................................................... 3
- EDEB 515 | Persian III ..............................................................................

### Spring Semester
- HIST 314 | Classical Arabic II .............................................................. 3
- HIST 316 | Advanced Classical Arabic II ............................................... 3
- HIST 506 | Ottoman Rule in Southeast Europe II: 1600-1878 ..................... 3
- HIST 508 | Methodology in History II .................................................. 3
- HIST 518 | Introduction to Ottoman Diplomatics .................................... 3
- HIST 520 | Sources of Ottoman Social and Economic History II .................. 3
- HIST 530 | Comparative History of Crusading and Holy War ...................... 3
- HIST 538 | US in the Gilded Age and Progressive Era ................................ 3
- HIST 554 | Turkish War of National Liberation ..................................... 3
- HIST 612 | Ottoman Imperial Socio-Economic History, 1453-1600 ............... 3

### EUROPEAN HISTORY OPTION

### Autumn Semester
- HIST 507 | Methodology in History I .................................................. 3
- HIST 511 | Ottoman Social and Economic History I .................................. 3
- HIST 513 | Intellectual Movements in the Tanzimat Period I ...................... 3
- HIST 525 | Transition from Late Byzantium to Early Ottoman ................... 3
- HIST 533 | Religion: East and West (1350-1850) .................................. 3
- HIST 535 | Abdulhamid: Reformer or Reactionary .................................. 3
- HIST 547 | Comparative History of Elites: Political and Religious I ............ 3
- HIST 563 | Islamic Culture in the Ottoman Balkans, 1400-1600 .................. 3

### Spring Semester
- HIST 314 | Classical Arabic II .............................................................. 3
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- HIST 506 | Ottoman Rule in Southeast Europe II: 1600-1878 ..................... 3
- HIST 508 | Methodology in History II .................................................. 3
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- HIST 538 | US in the Gilded Age and Progressive Era ................................ 3
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- HIST 612 | Ottoman Imperial Socio-Economic History, 1453-1600 ............... 3

### AMERICAN HISTORY OPTION

### Autumn Semester
- HIST 507 | Methodology in History I .................................................. 3
- HIST 513 | Intellectual Movements in the Tanzimat Period I ...................... 3
- HIST 525 | Transition from Late Byzantium to Early Ottoman ................... 3
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.

**Doctor of Philosophy in History**

**Autumn Semester**

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**COURSE DESCRIPTIONS**

**UNDERGRADUATE COURSES**

**HCIV 101 History of Civilization I**
Provides background to the origins of early Western civilizations: deals with the nature and spread of the earliest civilizations in the Ancient Near East and the development of civilization in classical and medieval Europe, concerning their political, social, economic and religious life; focuses on the globalization process of the civilization to be culminated in Western Europe. **Credit units:** 3. **Aut (G. Büken, M. Kalpaklı, H. A. Karasar, M. Özyurt Kılıç, L. Şen, A. Thornton, D. Thornton) Spr (Staff)**

**HCIV 102 History of Civilization II**
Provides background to the origins of modern Western civilization: deals with the development of European society from around AD 1500 until the present, concerning the political, social economic and religious life of the West during that period. **Credit units:** 3. **Spr (M. Özyurt Kılıç)**

**HIST 103 Basic Arabic II**
Continuing with grammar rules, the student will be taught sentence types as well as analyze texts suitable to their levels. By the end of the course students will be able to analyze modern texts. **Credit units:** 3.

**HIST 105 Basic Arabic IV**
Complex modern and classical texts will be analyzed and grammar practice continued so that students can acquire an advanced ability with the language. Translations of modern and classical texts will also be made. By the end of the course students will be at an advanced level in speaking, writing and translation. **Credit units:** 3.

**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.

**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.

**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, Divânî scripts. **Credit units:** 3.

**HIST 313 Classical Arabic I**
Basic grammar of Classical Arabic. The main tenses. **Credit units:** 3. **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.

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

**HIST 316 Advanced Classical Arabic II**
Reading and grammatical interpretation of Classical Arabic texts. **Credit units:** 3.
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. Aut (N. Gûk)

HIST 402 Ottoman Turkish and Paleography II
Course on Arabic script and Ottoman grammar. Reading exercises on printed Ottoman texts. Credit units: 4.

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 Tûrks and Uygurs, 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 Muhammad's life and his achievements. The first four caliphs and the early Islamic conquest. Muawiyah 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 Ayyûbids. The coming of the Seljuks. The Turkish Principalities of Anatolia. Credit units: 3.

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. Aut (O. 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.

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. 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.

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.

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. Aut (D. Thornton)
112 FACULTY OF ECONOMICS, ADMINISTRATIVE AND SOCIAL SCIENCES

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.

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.

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.

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. Aut (T. Roberts)

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.

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.

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.

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. Aut (E. Kohn)

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. Aut (C. Leighton)

GRADUATE COURSES

HIST 501   Ottoman Paleography I
Advanced reading exercises on Ottoman documents.  Credit units: 4. Aut (N. Gök)

HIST 502   Ottoman Paleography II
Advanced reading exercises on Ottoman documents.  Credit units: 4.

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.
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. Aut (P. Latimer)

HIST 508 Methodology in History II
Main methods and approaches in historical research. Problems of historical research using primary sources. Source typology, and text criticism and analysis. Credit units: 3.

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.

HIST 511 Ottoman Social and Economic History I
Ottoman Beylik as a frontier state. Hegemony in Anatolia and the Balkans. The Battle of Ankara and struggle for Revival. The conquest of Constantinople. The definitive foundation of the classical Ottoman Empire. Ottoman Empire as a world power. Internal disorders. Social, economic and religious institutions. Credit units: 3. Aut (H. İnalcık)

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 Reşid 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 (Şinasi, Münif Paşa, A. Midhat, Ş. Şami). Credit units: 3.

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.

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.

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.

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, múhimmes, sicils, tahrirs, temettüats and vakfiyyes. Credit units: 3. Aut (O. Özel)

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, múhimmes, sicils, tahrirs, temettüats and vakfiyyes. Credit units: 3.

HIST 523 England (1300-1600): History and Texts
The purpose of this course is to examine in detail the history of England in the late middle ages and early modern period, with special reference to primary sources composed in the English language during the time-span c.1300-c.1600. The course will provide a basic grounding in Middle and Early Modern English, and will consider the problems of doing historical research using vernacular documents (administrative, historical, literary, religious and others). The course will examine the main social, economic and religious changes of this period against the background of political change. Credit units: 3.

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.

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. Aut (E. Kermeli)
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. Aut (P. Latimer)

HIST 531  Social and Economic History of the United States I
Colonial period in American history. The U.S. in the nineteenth century. The expansion of the American Republic to continental empire. The Great Transformation - industrial, transportation and political revolutions. Expansion of the cotton South. The Civil War and Reconstruction. Westward expansion, the Gilded Age, industrialization, urbanization and their consequences. Credit units: 3.

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. 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.

HIST 535  Abdulhamid: Reformer or Reactionary
The development of Ottoman government and society during the reign of Sultan Abd¨ulhamid 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. Aut (S. Shaw)

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.

HIST 538  US in the Gilded Age and Progressive Era

HIST 545  Themes in Historical Geography and Demography
Examination of the bases of historical demographic research and the importance of geographical and topological information in the understanding of communities in Europe and the Ottoman Empire. Credit units: 3.

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.

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.

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.

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.

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 U.S. military concepts and practices. Credit units: 3.

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 basing on Irish and Polish nationalisms, the development of Zionism, nationalism in the Ottoman Balkans and Arabia, and the Ottoman responses. Credit units: 3.

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.

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.

HIST 567 History and Literature in the Ottoman Empire

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.

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. Aut (T. Roberts)

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, relationism, and the cold war. Credit units: 3.

HIST 591 Seminar in Ottoman History I
Reading and interpretation of selected sets of documents on particular topics. 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.

HIST 595 Seminar in American History I
Independent work on the history of the United States in the nineteenth century. Credit units: 3.
HIST 597 Seminar in Ottoman History III
Reading and interpretation of documents related to individual student's thesis research. *Credit units: 3. Aut (E. Rashudev)*

HIST 598 Seminar in Ottoman History IV
Reading and interpretation of documents related to individual student's thesis research. *Credit units: None.*

HIST 599 Master's Thesis
*Credit units: None. Aut (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 Çift-Hane system. The Shari'a and 'Orf. The Ulema and the religious orthodoxy. Heterodox movements in the provinces. *Credit units: 3.*

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 Senedi-i İttifak as the tidemark of the Hanedan-power. Elimination of the Ayans and the Hanedans. *Credit units: 3.*

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.*

HIST 651 Continental and Insular Ancien Regimes

HIST 699 Ph.D. Dissertation
*Credit units: None. Aut (Staff)*
DEPARTMENT OF INTERNATIONAL RELATIONS


Part-time: S. Çal, T. Fırat, O. Gökçe, C. Karadeli.

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

**Autumn Semester**

<table>
<thead>
<tr>
<th>Course</th>
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<tr>
<td>GE 100</td>
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<tr>
<td>ECON 101</td>
<td>Introduction to Economics I</td>
<td>3</td>
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<tr>
<td>POLS 101</td>
<td>Introduction to Political Science I</td>
<td>3</td>
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<tr>
<td>ENG 101</td>
<td>English and Composition I</td>
<td>3</td>
</tr>
<tr>
<td>SOC 101</td>
<td>Introduction to Sociology</td>
<td>3</td>
</tr>
<tr>
<td>TURK 101</td>
<td>Turkish I</td>
<td>2</td>
</tr>
<tr>
<td>HCIV 101</td>
<td>History of Civilization I</td>
<td>3</td>
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**Spring Semester**

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<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>CS 121</td>
<td>Introduction to Computing for Social Sciences</td>
<td>3</td>
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<tr>
<td>ECON 102</td>
<td>Introduction to Economics II</td>
<td>3</td>
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<tr>
<td>POLS 102</td>
<td>Introduction to Law</td>
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<tr>
<td>ENG 102</td>
<td>English and Composition II</td>
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TURK 102 Turkish II ................................................................. 2
HCIV 102 History of Civilization II ........................................... 3

SECOND YEAR

**Autumn Semester**
- IR 203 International Relations I ........................................... 3
- IR 229 Research Methods I .................................................. 3
- MATH 264 Statistics for Social Sciences .................................. 3
- PHIL 241 Social and Political Philosophy I .............................. 3
- ENG 241 Sophomore Academic English I ................................. 3
- HIST 201 History of Turkish Republic I .................................. 2

**Spring Semester**
- IR 204 International Relations II ......................................... 3
- IR 230 Research Methods II ................................................. 3
- PHIL 242 Social and Political Philosophy II ............................ 3
- ENG 242 Sophomore Academic English II ............................... 3
- PSYC 102 Introduction to Social Psychology ........................... 3
- HIST 202 History of Turkish Republic II ................................ 2

THIRD YEAR

**Autumn Semester**
- IR 205 Diplomatic History I ............................................... 3
- IR 303 International Law I ................................................... 3
- IR 305 International Organizations ...................................... 3
- IR 333 Foreign Policy Analysis ............................................ 3
- IR 335 International Relations Theory ................................... 3

**Spring Semester**
- IR 218 Diplomatic History II ............................................. 3
- IR 304 International Law II ................................................ 3
- IR 338 Politics of International Economy ............................... 3
  Non Technical Elective (2) ................................................. 6

FOURTH YEAR

**Autumn Semester**
- IR 439 Turkish Foreign Policy I ......................................... 3
  Non Technical Elective (4) ................................................. 12

**Spring Semester**
- IR 440 Turkish Foreign Policy II ....................................... 3
  Non Technical Elective (4) ................................................. 12

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, Management and/or philosophy or foreign language courses.

**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 24 units of credit. The international relations courses must include International Relations Theory (IR 501), Research Methods (IR 519), Turkish Foreign Policy (IR 560) and Pre-Thesis Seminar (IR 590).
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 24 credits required for the degree; or 2) by being a native speaker of the language appropriate to his/her area of research.

The Department of International Relations also offers a Russian Studies track in its Master’s program: this is an extensive program designed to introduce students to Russia in the broadest possible sense, including Russian history, civilization, culture, language and politics.

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

Autumn Semester (Compulsory Courses)

<table>
<thead>
<tr>
<th>Course</th>
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<td>ECON 507</td>
<td>Economics for International and Public Affairs I</td>
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<td>IR 543</td>
<td>International and Public Policy Decision Making</td>
<td>3</td>
</tr>
<tr>
<td>IR 547</td>
<td>International Politics</td>
<td>3</td>
</tr>
<tr>
<td>IR 569</td>
<td>International Business</td>
<td>3</td>
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<td>IR 629</td>
<td>Global Political Economy</td>
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Spring Semester (Compulsory Courses)

<table>
<thead>
<tr>
<th>Course</th>
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<th>Credits</th>
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<tr>
<td>ECON 508</td>
<td>Economics for International and Public Affairs II</td>
<td>3</td>
</tr>
<tr>
<td>IR 574</td>
<td>Turkey’s International Relations</td>
<td>3</td>
</tr>
<tr>
<td>IR 594</td>
<td>International Law and Organizations</td>
<td>3</td>
</tr>
<tr>
<td>ELS 405</td>
<td>Graduate Writing and Presentation Seminar</td>
<td>3</td>
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SECOND YEAR

Autumn Semester

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<tr>
<th>Course</th>
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<tr>
<td>MIAPP 531</td>
<td>International Economics</td>
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</tr>
<tr>
<td>MIAPP 533</td>
<td>Private Finance Models in Infrastructure</td>
<td>3</td>
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</tbody>
</table>
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 that will contribute to the existing theory and knowledge of international relations theory, strategic studies, comparative foreign policies, and/or area studies such as Western Europe, the Middle East and Central Asia. 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). Those candidates who have not taken Research Methods before must complete 27 credits by taking IR 519.

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. Aut (T. Fougner, A. Tekin)

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, Prerequisite: IR 203. Spr (T. Fougner, A. Tekin, G. Tuna)

IR 205  Diplomatic History I
Diplomatic history from the Peace of Westphalia until World War I. Credit units: 3. Aut (S. McMeekin, S. Podbolotov, N. Stone)

IR 218  Diplomatic History II
Diplomatic history from World War I to the contemporary era. Credit units: 3, Prerequisite: IR 205. Spr (S. McMeekin, S. Podbolotov)

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. 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, Prerequisite: IR 229. Spr (S. S. Güner, 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. Aut (İ. Akipek, A. L. Karaosmanoğlu)

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. Spî. (İ. Akipek, A. L. Karaosmanoğlu)

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. Aut (Y. İnan)

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. Spr (S. H. Kırımlı)

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. 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. 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. 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. Spr (Yınan)

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. 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. Aut (D. Sezer, G. Tuna, P. Williams)

IR 338  Politics of International Economy

IR 344  Selected Topics in International Security
The primary objective of this course is to introduce the undergraduate students of the International Relations discipline to a number of emerging threats to international and regional security and stability in the post-Cold War era. Credit units: 3. Spr (M. Kibarğlu)

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.

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.

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

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 courts and tribunals. Such topics may be related to self-determination, law of the sea, peacekeeping operations, humanitarian intervention, state succession and international responsibility. Credit units: 3. Spr (Yınan)

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. Spr (D. Sezer)

IR 436  Theory and Practice of Communism
This surveys the original Marxist doctrines and their adaptation by Lenin. Attention will be given to the relative failure of communism in the West – with qualifications, as far as France, Spain, Greece, Cuba, etc. are concerned – and its success in Russia, China and Vietnam. The Russian experience will have the center place, but comparison will be made with the other Communist countries, whether in Eastern Europe, Asia or Africa. Credit units: 3. Spr (N. Stone)
IR 439  Turkish Foreign Policy I
Analysis of Turkish Foreign Policy from the beginning of the Republic until 1950. Credit units: 3. Aut (N. B. Criss, O. Gökçe, M. Kibaroğlu)

IR 440  Turkish Foreign Policy II
The setting, objectives and issues of Turkish Foreign Policy since 1950. Credit units: 3, Prerequisite: IR 439 or IR 316. Spr (N. B. Criss, O. Gökçe, M. Kibaroğlu)

IR 443  The Social and Material Determinants of International Politics
In raising questions such as whether the “clash of civilizations” can be better understood in a material frame of analysis or whether “environmental violence” is more of a social conflict, this course challenges students to re-think popular concepts in the field of the International Relations with the aim of producing a richer and more complete understanding of the causes and consequences of key phenomena in international relations. Credit units: 3. Aut (P. Williams)

IR 453  Old Europe and New Europe
Demographics, economics, and geopolitics seem all to be conspiring powerfully against the aging “Old Europe” welfare superstate. Can the European Union survive in something resembling its present form? Is radical change afoot -or perhaps even a challenge from alternative organizations such as the European Free Trade Area (EFTA), which offers prospective members trade benefits without the political baggage of Brussels? We’ll look at all these questions in historical perspective- while keeping our eyes on the headlines. Credit units: 3. Aut (S. McMeekin)

IR 454  International Environmental Politics
This course will focus on applying divergent theoretical approaches (realism, neoliberal institutionalism, domestic politics, epistemic communities, critical theory, feminism, etc.) to analysis of the causes, consequences, and resolvability of a representative range of international environmental political issues, from disputes relating to transboundary water shortages and degradation to global common property resource issues (especially ozone layer depletion, acid rain, and global warming). Credit units: 3. Spr (G. Tuna)

IR 461  International Business Management
The globalization of business brings new opportunities and threats to governments, firms and individuals. This course will focus on the practical application of basic business concepts and principles of international business management. It will discuss the impact of international business on a global scale, theoretical foundations, the international business environment, business strategy and operations. Credit units: 3. Aut (T. Fougner, E. Veral)

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. Spr (S. Shaw)

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. Spr (W. Korab-Karpowicz)

IR 468  Contemporary Russian Political Economy
This course will examine the dramatic changes in Russia’s political system since perestroika, with a particular emphasis on the role of economic reform (or the lack thereof) in the collapse of the Soviet Union and the rise of a “mafia” economy out of the ashes of Communism. After surveying the apparent economic wreckage of the Yeltsin years, we will assess Putin’s efforts to rationalize tax and property laws into better compatibility. Credit units: 3. Spr (S. McMeekin)

IR 470  International Terrorism and Transnational Crime
This course is designed to give students a comprehensive understanding both conceptual and practical of the topics of international terrorism and transnational crime. On the conceptual side, the theories, org.ns, definitions, forms, strategies/tractics, international relations and countering strategies of international terrorism and transnational crime will be explored. On the practical side, we will have guest speakers who are active counter terrorism/organized crime professionals, as well as having the opportunity to visit relevant departments of the national and military police commands. The course will be run on a lecture/seminar basis, and will include a simulation activity of an international terroris act, which will involve the participation of all class members. Credit units: 3. Spr (E. Aydınlı)
IR 472 Diplomatic Language and Translation
The purpose of this course is to familiarize the student with diplomatic language, which is different from the language used in ordinary life. The difference stems mostly from the terms and expressions used that have a meaning other than those found in dictionaries. The course is an introduction to the art of communication and 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. Spr (O. Gökçe)

GRADUATE COURSES

IR 501 International Relations Theory
The main traditions and currents of thought in international political theory. Early thinking about international relations. Major twentieth century approaches: idealist-realist debate; the power politics approach and its fundamental concepts such as balance of power, national interest, nationalism and imperialism. Behaviorism; systems thinking; interdependence and structuralist theories. Decision-making and integration theories. Credit units: 3. Aut (E. Aydınlı)

IR 519 Research Methods
This course aims to develop in students an appreciation of research design and methods and to prepare them for the thesis stage of the Master’s program. Topics covered include principles and foundations of empirical research, design and structure of research, and data processing and analysis. It also provides an opportunity for students to begin to design their own research project in the light of the methods discussed. Credit units: 3. Aut (M. Kıbaroğlu)

IR 521 Studies in Russian and Soviet History
This is an advanced political history course which is specially suggested to students who have a strong interest in Russian and Soviet studies. Credit units: 3. Spr (S. H. Kirimi)

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. Spr (H. Ünal)

IR 531 Central Eastern Europe (1915-1945)
Political and military history of Eastern Central Europe with an emphasis on wars and revolutions between 1815 and 1945. Credit units: 3. Aut (N. Stone)

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 misrepresentation of preferences. The second part includes two-person mixed-motive games, coalition-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. 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. Aut (G. Tuna)

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. Aut (H. Ünal)
IR 560 Turkish Foreign Policy
Analysis of major issues in Turkey's foreign relations. Credit units: 3. Spr (Staff)

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. Aut (G. Tanrıkuğlu)

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. 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. Aut (S. McMeekin)

IR 568 Russian State and Politics in the Twentieth Century
This course will involve chronology, starting with the end of the Civil War. Attention will be paid to efforts at reform of classic "socialism" - the New Economic Policy, and subsequent attempts in the 1960's and 1980's at "market socialism" and to the causes and consequences of the breakdown of such efforts: the collectivization of agriculture and the immense famine and purges that followed; the semi-demi Stalinization that occurred under Brezhnev, and the final collapse of the Soviet Union in 1991. The course will concentrate on a) nationality policy, its successes and failures b) the role of the Party and c) the foreign relations of the Soviet Union. Credit units: 3. Spr (S. Podbolotov)

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.

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. 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. 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. Spr (G. Tanrıkuğlu)

IR 575 The Ottoman-Russian Relations: Centuries of Struggle and Coexistence
The centuries of long relations between the Russian and Ottoman Empires were of critical importance, which virtually determined each other's fate. A series of wars and diplomatic struggles notwithstanding, they had an even longer history of peacetime relations and active cooperation. These two Eurasian empires also bore striking similarities and parallels in their internal affairs. This course aims at an in-depth analysis of these complex sets of relations and transactions, by making extensive use of source material in English, Turkish and Russian languages. Credit units: 3. Aut (S. H. Kirımli)

IR 576 Organizational Behavior and Ethics
This course concentrates on two equally important subjects. One is Organizational Behaviour, in short OB. The other one is work ethic. Organizational behaviour is the study of individual and group behaviour in organizations. The objective of organization behaviour is to help managers make good decisions while working with people in complex and dynamic environments. The field of OB includes concepts and theories relevant to managing individuals, groups and entire organizations. On the other hand work ethic deals with work oriented behaviors. Work ethic is closely related with organizational culture, national culture and personality. The interaction between work ethic and OB will also be discussed in this course. Credit units: 3.
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, Prerequisite: IR 205 or IR 218 or IR 625. Spr (N. B. Criss)

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. Aut (M. Ayoob)

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. Aut (D. Sezer)

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. Spr (Staff)

IR 593 Future of European Union
This course covers the political and economic aspects of the European Union (EU) with a futuristic perspective. It begins with a discussion of the integration theories. Giving an historical perspective on the development of the EU, it continues with an examination of the EU policies and institutions. The course then deals with the shape that the EU might have take within the future. In this context, it turns attention to the issues and discussions in the on-going Convention for the future of European Union. Finally, the course takes a look at Turkey EU relations, past and present, and attempts to project its likely development path. Credit units: 3. Aut (A. Tekin)

IR 599 Master's Thesis
Credit units: None. Aut (Staff) Spr (Staff)

IR 614 New Directions in Security Studies
This course is designed as a post-graduate level introduction to new directions in the study of security. Since the late 1980s, there has been remarkable change in the way security is conceived, studied and practiced. The academic field of Security Studies has been the subject of intense academic, intellectual and political debate during this period. The main aim of this course is to introduce students to main debates in Security Studies by tracing the development of Security Studies from its Cold War past to its post-Cold War present and opening up alternative ways of thinking about the future. Credit units: 3. Spr (H. P. Bilgin)

IR 621 Current Debates in International Relations Theory
In this course, students will be exposed to a variety of theoretical perspectives. In order to understand and participate in many of IR's current debates, one must be able to situate them within the context of earlier debates in the discipline's history. Some of the topics are: neorealism vs. Neoliberalism, dependency, structuralism, Marxism, Neomarxism, feminism, critical theory, post-modernism and constructivism. Credit units: 3. Aut (H. P. Bilgin)

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: 3. Aut (N. B. Criss)

IR 629 Global Political Economy
This course is designed to explore questions relating to theory and process of increasingly globalizing international political economy. The purposes of the course are to expose students to major changes in the international political 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. Aut (O. Güvenen)

IR 699 Ph.D. Dissertation
Credit units: None. Aut (Staff) 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. Aut (S. Togan)
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. Aut (S. Çal)

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. Aut (T. Fırat)
DEPARTMENT OF POLITICAL SCIENCE


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

Autumn Semester

<table>
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<tr>
<th>Course Code</th>
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<tr>
<td>POLS 101</td>
<td>Introduction to Political Science I</td>
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<tr>
<td>GE 100</td>
<td>Orientation</td>
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<tr>
<td>ECON 101</td>
<td>Introduction to Economics I</td>
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<td>ENG 101</td>
<td>English and Composition I</td>
<td>3</td>
</tr>
<tr>
<td>SOC 101</td>
<td>Introduction to Sociology</td>
<td>3</td>
</tr>
<tr>
<td>TURK 101</td>
<td>Turkish I</td>
<td>3</td>
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<tr>
<td>HCIV 101</td>
<td>History of Civilization I</td>
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Spring Semester

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<td>ECON 102</td>
<td>Introduction to Economics II</td>
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<td>ENG 102</td>
<td>English and Composition II</td>
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<tr>
<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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<tr>
<td>POLS 201</td>
<td>Fundamentals of Social Research</td>
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<tr>
<td>POLS 231</td>
<td>Introduction to Law</td>
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<tr>
<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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<td>HIST 201</td>
<td>History of Turkish Republic I</td>
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**Spring Semester**

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<td>POLS 232</td>
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<tr>
<td>MATH 264</td>
<td>Statistics for Social Sciences</td>
<td>3</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>
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<td>HIST 202</td>
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Elective courses must be taken either from 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 sophomore is allowed to choose an elective course only at the 200 level.

**THIRD YEAR**

**Autumn Semester**

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<tr>
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<td>POLS 303</td>
<td>Comparative Politics I</td>
<td>3</td>
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<td>POLS 305</td>
<td>Turkish Political Development</td>
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<tr>
<td>CS 121</td>
<td>Introduction to Computing for Social Sciences</td>
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**Spring Semester**

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<td>Comparative Politics II</td>
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<td>POLS 306</td>
<td>Contemporary Turkish Politics</td>
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<tr>
<td>POLS 324</td>
<td>Research Methods</td>
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<td>Electives (2)</td>
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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**

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<tr>
<td>POLS 455</td>
<td>World Politics I</td>
<td>3</td>
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<td>Electives (4)</td>
<td>12</td>
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**Spring Semester**

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<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tr>
<td>POLS 433</td>
<td>Politics of European Integration</td>
<td>3</td>
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<td></td>
<td>Electives (4)</td>
<td>12</td>
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</tbody>
</table>

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 PROGRAMS
Master of Arts in Political Science

The Master of Arts Program in Political Science aims to provide an education at the intermediate level between the undergraduate and doctoral levels. Candidates are expected to write a thesis which will be a contribution to knowledge in a relevant area. Refer to the "Graduate Admissions" section in the introduction of this catalog for the general graduate admission requirements.

CURRICULUM

Autumn Semester
POLS 531 Turkish Politics ............................................................... 4
POLS 541 Political Theory .............................................................. 4
POLS 551 Pre-Thesis Seminar I ......................................................... 4
POLS 568 Graduate Elective (1) ........................................................ 3
POLS 599 Master's Thesis ............................................................... 3

Spring Semester
POLS 502 Graduate Elective (1) ....................................................... 4
POLS 514 Comparative Politics and Ideology in the Middle East ............... 4
POLS 521 Comparative Politics ........................................................ 4
POLS 579 Pre-Thesis Seminar II ....................................................... 3
POLS 599 Master's Thesis ............................................................... 3

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. The typical course load in the first year of the program is as follows:

CURRICULUM

Autumn Semester
POLS 505 Aspects of Turkish Politics I ............................................... 4
POLS 511 Comparative Politics ......................................................... 4
POLS 553 Research Methods ............................................................ 4

Spring Semester
POLS 506 Aspects of Turkish Politics II ............................................. 4
POLS 517 Politics and Ideology ........................................................ 4
POLS 584 Politics of Nationalism and Ethnicity .................................... 4

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. Aytürk, B. İnce, O. O. Sevgilier, 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.****

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.**

(A. Erdentüg, A. Eren)

POLS 202 **Statistics for Social Sciences**
Introduction to statistics with special emphasis on the utilization of statistical methods in social sciences. **Credit units: 3.**

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.**

(A. Kurtoğlu)

POLS 207 **History of Political Thought I**
A select survey of major expressions of Western political thought to the 17th century. The aim is to enable the student to develop a critical awareness of alternative political philosophies, and an ability to analyze important political problems from alternative perspectives. Major emphasis on the arguments political philosophers have made concerning enduring political issues such as private property, human equality and individual freedoms. **Credit units: 3.**

POLS 208 **History of Political Thought II**
A survey of some modern expressions of Western political thought; major political thinkers from the 17th to the 20th centuries. As in POLS 207, emphasis upon the arguments political thinkers have made concerning philosophical debates such as political obligation of subjects, human equality, individual freedoms, and the like. **Credit units: 3.**

POLS 210 **History of Western Political Thought**
This course aims to critically examine the work of influential thinkers in the history of political thought from Plato through to John Stuart Mill. Through the original writings of those theorists we will investigate the different arguments concerning how political power should be distributed and used. In addition we will consider the question of whether law and government should aim to enable the good of the whole political community or protect the individual members of the political community. This will lead us to develop an understanding of the complexities surrounding the concepts of moral justice, political obligation and political freedom. **Credit units: 3.**

POLS 211 **Social Theory**
The central concept of social theory such as community, authority, status, the sacred, and alienation, around which both empirical and theoretical social sciences are based. Sociology's relationship to political science: de Tocqueville, Max Weber, Durkheim, Simmel, and others; phenomenology and interactionists. **Credit units: 3.**

POLS 212 **Introduction to American Politics**
This course provides an introduction to the study of American Politics and Government in theory and practice. The course is designed to give students a basic understanding of the processes, institutions, and objectives of American Government. In addition, a primary objective of this class is to develop some insight into the fundamental contradictions inherent in a system based in principle on both liberty and equality, the individual and the community. **Credit units: 3.**

POLS 217 **Political Dynamics in Changing Societies**
This is an introductory course focusing on the relevant theories to political change in developing countries. The aim is to analyze a number of theories that would help explain the dynamics of political change as well as the interactions between the state and society in countries that are under a process of systemic transformation. Factors that account for the formation of different political structure are investigated in order to develop a framework along which societies go through change. There are also specific references to the political transformation going on in various parts of the world today, such as Central Asia and Europe. **Credit units: 3.**

POLS 219 **Societies, Cultures and Change**
This course aims at providing an insight into the economic, social and cultural aspects of traditional, industrial and post-industrial/information societies. The transition from one type of society to another is explained through social and anthropological theories, concepts and processes related to change as well as the stimulants to change and its social, cultural and psychological barriers. **Credit units: 3.**

POLS 223 **Comparative Constitutions**
Constitutions in comparative perspectives. Historical and contemporary developments in the constitutional documents. **Credit units: 3.**
POL 224  Politics of Population
A study of the political context of human populations. The main concepts in the field of population studies. Contemporary issues concerning population and politics. Application of a knowledge of population to wider social, political and economic concerns. Credit units: 3.

POL 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. (A. Erden)ğ)

POL 226  Middle Eastern Politics
Historical and contemporary developments in the Middle East. Definition of major conflict areas, historical accounts of the existing political dynamics in the region as well as economic and political processes in key countries. Credit units: 3.

POL 227  Introduction to Social Theory
This course provides an introduction to key concepts, methodologies, and theoretical trends in the social sciences of Western modernity. It is an interdisciplinary study of the historical development of the ideas and ideological significance of major European social thinkers. In this regard, the specific emphasis is given to the views developed by the Enlightenment thinkers, the Liberal thought, Emile Durkheim, Karl Marx, Max Weber, and Friedrich Nietzsche. The primary aims of the course are to help provide a detailed framework for understanding the development and persistence of social thought in modern society, and to assist the development of critical reading and writing. Credit units: 3. Aut (O. Tekeliğlu)

POL 228  Anthropology of Turkey
The course aims to provide information about the peoples and cultural heritage of Turkey within the context of the Middle Eastern setting. Topics to be discussed are communal identities and ethnic groups; pastoralism and nomadic society; agriculture and the changing village; squatter settlements; kinship, marriage and the family, sources of social organization; changing roles of women and the local organization of power. Credit units: 3.

POL 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. Aut (B. Burçak)

POL 231  Introduction to Law

POL 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. Spr (Z. Arslan)

POL 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. Spr (J. Salt)

POL 302  Politics in the Third World
Structures and processes of politics in developing countries. Regime changes, role of the military and civil bureaucracy. Credit units: 3.

POL 303  Comparative Politics I
Historical and contemporary political developments in the USA, UK, France, and Germany. Credit units: 3. Aut (A. Çınar, A. Çırákman, H. Shambayati)

POL 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. Spr (A. Çınar, H. Shambayati, L. Yanık)

POL 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. Aut (U. Cizre, O. 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. Spr (İ. Ayturk, Ü. Cizre, Ö. F. Gençkaya)

POLS 307  Computers in Social Sciences
Significance of computer and information technology, and evaluation of computers. Computer hardware organization; software concepts; computer applications in social sciences; data representation and storage in different media. Programming and word processing; file organization and processing techniques; query processing and report generation. Credit units: 3.

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. Aut (B. Burçak)

POLS 311  Politics in the Middle East
This course is a study of the political, social and intellectual development of the Middle East in the modern period. Special emphasis placed on the repercussions of imperialism and colonialism on the building of a state system and on particular issues such as the Arab Israeli conflict. The civil war in Lebanon, the establishment of the Islamic Republic of Iran, the Gulf War and US-Arab world relations. Credit units: 3. Aut (J. Salt)

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.

POLS 313  Migration and Problems of Integration
This course aims to introduce the problems which are faced by the immigrants and immigrant receiving countries in Western and Northern Europe. It presents two aspects of the issue, both from the immigrants point of view and policy makers considerations. It brings a multidimensional approach to inter- and intra-cultural human contact. Credit units: 3.

POLS 317  Politics of European Community
This is a course on the development of the European Union (EU) and its institutions since the Rome Treaty. The integration of the EU as a political process, as well as the EU and Turkish relations. Credit units: 3.

POLS 318  European Politics
The main aspects of politics in both Eastern and Western Europe. The political, economic and social developments in both sections of the Continent. The post-war histories of the two rival blocs (the eastern and the western). The principal political issues in contemporary European politics are the core concern of the course. One of the most important objective of the course is introducing a wider pan-European perspective into the political science discourse. Credit units: 3.

POLS 319  Third World Societies and Cultures
The course is concerned with giving a profile of these countries for an understanding of the reasons for their underdevelopment. Topics covered are, the creation of the Third World, anthropological concepts and processes related to the Third World, Third World urbanization, modernization and dependency theory, subsistence strategies, political organization, kinship, marriage, the family and the changing roles of women. Credit units: 3.

POLS 320  Human Rights
Human rights express the basic values cherished in a particular political community. Many of them are shared by most of mankind, as expressed in the Universal Declaration of Human Rights, adapted by the United Nations. No legal document that lacks specified human rights provisions for their enforcement can be said to be a genuine constitution in the sense of Western constitutionalism. This course is designed to enable the students to understand the nature, relevance and importance of human rights. Credit units: 3.

POLS 321  Globalization and Nationalism
‘Globalization’ as a context of the state of post-industrial capitalism will be used to analyze the changing yet persistent role of nation-states, economic and cultural institutions, and social movements. We will study the implications of globalization upon the landscape of political and cultural imagination manifested in the new forms of political identities – class, ethnicity and gender – as reactions to the new forms of power and inequality. Credit units: 3.

POLS 322  Politics of Rapid Urbanization
The social and political outcomes of rapid urbanization. A focus on squatter settlements. A critical perspective on the integration question of rural migrants in the city. A gender-oriented approach. Credit units: 3. Spr (T. E. Erman)
POL 323 Political Anthropology
The course is concerned with the social and cultural phenomena related to how and why power and authority operate in human societies. Some of the topics covered are: types of preindustrial political systems; the evolution of the state; religion in politics; political succession; women and power; political symbolism and the influence of macrolevel politics on local authorities and polities. Credit units: 3.

POL 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. Spr (A. Erdentüg, A. Eren, Z. Tandoğan)

POL 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. Spr (Z. Tandoğan)

POL 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. Aut (L. Yanık)

POL 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 economic policies. It covers European countries, including partially Eastern Europe, with a focus on the EU member countries. Topics covered are the human geography of 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. Spr (A. Erdentüg)

POL 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. Aut (İ. Aytürk)

POL 332 Political Communication and Turkey
The role and effect of mass communication media on political communication will be the core of this course. In this course, perception of power, types of language, leadership patterns and components of ideology will be explained with regard to related examples in Turkey. The mass media experience of Turkey with a historical overview and the political function of mass communication will be studied. Regarding the elections and political marketing issues, the previous experience of USA, UK and Turkey will be demonstrated via political commercials with a brief description on campaigning models and political marketing discourse. The close relation of political movements with the components of political communication, as well as the effects of political communication on certain foreign policy issues with related shifts in national orientation, will be outlined. Credit units: 3.

POL 333 State and Society in Europe
This course aims to provide students with the theoretical framework of regional and ethnic nationalism as being witnessed in various parts of Europe. It also aims to analyze the dynamics behind the regionalist-nationalist movements in the context of state-society relations which sometimes ends up with the demands of secession that undermines the national integrity of countries and brings about a controversy in the light of the European integration process. The first part of the course is on the theories of secession and national integration and their links to supranational integration and the second focuses on the most important regionalist movements such as Northern Irish, Scottish, Walloon-Flemish and Corsican. The theoretical framework that will be laid out in the first part of the course will provide a tool for analyzing these case countries. Credit units: 3.

POL 335 History of Political Thought III: Justice and Legitimacy
This course will consider a number of influential texts in 20th Century political thought that focus on the concepts of justice and legitimacy. Through these texts students will be able to further develop their critical awareness of political thought and its applicability to the problems that confront us in contemporary politics. In addition, the course will provide a forum through which students can further develop their ability to critically appraise and communicate their ideas both verbally and in written form. Credit units: 3.

POL 337 Public Policy
This course is designed as an overview of the policy making process, from problem identification and agenda setting, to the impact, evaluation, and revision of policy. Emphasis is placed on the essential political environment
of policy making, that is, special attention is given to the comparative study of policy making, through, for example, due consideration of the peculiar difficulties encountered when trying to formulate and implement public policy in the “less-developed” versus the “developed” world. Credit units: 3.

POLS 339 Policy, The State and The Public
This course intends to explore the political aspects of public policy and to develop a critical perspective on the public policy process and stakeholders. The course divides into three parts: (1) Concepts, theories, methodologies, history and development (2) The policy game, rules, venues and arenas in which it is played, and roles of governmental stakeholder/players, and (3) participator policy. Credit units: 3.

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. Aut (E. Podoksik)

POLS 401 International Relations Theory I
This course aims at providing the fourth year political science major students with an understanding of international politics. The course is based upon a thorough analysis of the process and theories of international relations. The external and internal processes that affect nation-states are identified within a multi-disciplinary approach. Credit units: 3.

POLS 402 International Relations Theory II
This course follows POLS 401, International Relations Theory I. The course covers such theories as liberal institutionalism, and international economic interdependence. The students are exposed to the recent trend in international politics, namely the linking of internal and external politics. The issues where they will be able to develop the linkage are foreign policy making and the impact of domestic politics on foreign policy making. Credit units: 3.

POLS 403 Comparative State and Democracy

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. Spr (F. Gençkaya)

POLS 406 Transition to Democracy
Types of regime transitions. Consolidation of horizontal and vertical dimensions of democracy. Approaches to the transition to democracy. The role of political actors and political institutions in transitions to and consolidation of democracy. Credit units: 3.

POLS 407 Contemporary Political Ideologies
Major contemporary political ideologies such as liberalism, fascism, communism, and their various formulations in different contexts. Recently acknowledged currents such as feminism, environmentalism, religious revivalism and their political manifestation are also explored. Credit units: 3.

POLS 409 Seminar on Middle Eastern Politics
Recent developments in the Middle East, including the Iran-Iraq war and the invasion of Kuwait. Their implications for the internal politics and internal relations of the countries concerned. Evolving relations between Turkey and the countries in the area. Credit units: 3.

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. Spr (D. Cindoglu)

POLS 412 Seminar on the External Dimension of Turkish Politics
This is an advanced course aiming at analyzing the external forces and their affect on Turkish internal politics as well as Turkish foreign policy. The time period to be focused is the modern Turkish Republic but there will also be references to the last decades of the Ottoman Empire. The overall aim is to come up with an explanation of the impact of foreign pressures and external factors on the Turkish internal political structure. Credit units: 3.

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.

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. Aut (B. Helvacıoğlu)

POLS 422 Power and Modern Society
Theoretical perspectives on power and the role of the state provide a framework for analyzing political problems in the modern society. This seminar-type course deals with the theoretical conceptions of power in the contemporary societies. Three divergent yet modernist views on power are initially presented: elitist, pluralist and veto bloc, followed by a study of more general interpretations in term of class (Marx, Gramsci) domination/cultural hegemony (Weber, the Frankfurt School), and surveillance (Nietzsche, Foucault), Consideration of power patterns in Turkish daily life and communities concludes the investigation. Credit units: 3. Spr (O. Tekeçioğlu)

POLS 423 Models of Democracy
This course is designed to give the student an understanding of the concept of democracy today as well as the way in which it has been perceived, articulated, practiced and criticized throughout the history of western civilization. In addition to familiarizing the student with varieties and often conflicting definitions of the term, the course addresses such issues as democracy as a form of government; representation; and the state and individual liberties. Credit units: 3.

POLS 425 Contemporary Theories of Justice and Freedom
Theories of justice are concerned to establish what minimal level of state involvement is necessary to ensure equal freedom for all. From this basic position three crucial questions emerge: When does a person’s freedom of expression encroach upon the freedom of others? To what extent is equal freedom for all compatible with the pursuit of equality and social optimality? To what extent does one’s right to equal freedom extend to the ownership over the product of one’s labor? The way in which alternative contemporary political theorists answer these questions depends on what conception of freedom they presuppose. Credit units: 3.

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. Aut (A. Türkün)

POLS 428 Islam, Society and State in the Middle East
This course will study the interaction between governments, Islam and societies in the Middle East from the 19th century to the present. The course will deal with the Islamic reaction to reform and change in the 19th century, the Islamic response to western intervention and nationalism from the 19th century to the present, the formation of Islamic movements and the establishment of Islamic governments and the impact of current Islamic movements from Algeria to the Arabian Gulf. The economic and political doctrines of these movements will also analyzed. Credit units: 3.

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. Aut (S. Shaw)

POLS 430 Policy Analysis
A selective review of relevant approaches and analytical tools. The manner in and extent to which different political systems introduce limitations for policy makers and analysts. An introduction to evaluation research of domestic and foreign policy issues. Credit units: 3.

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. Aut (A. Çınar)
POLS 432  The First Turkish Republic (1923-1950)  
Political, economic and social development of the Turkish Republic and Turkish foreign relations during the presidencies of Mustafa Kemal Atatürk and Ismet İnönü, 1923-1950. Credit units: 3.

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. Spr (A. Günay)

POLS 434  Seminar on Multiculturalism  
The course will discuss the topics concerning the issue of multiculturalism in the way that it is perceived and practiced in some selected western and non-western societies. Through a comparative approach, the course will provide and develop an understanding of multiculturalism in the specific context in which it is experienced and discussed. Credit units: 3.

POLS 435  European Political Thought I  
This course focuses on the major political thinkers and the meaning and implications of their work for contemporary political issues. It provides an examination of basic texts and persistent themes from the early modern times to the Enlightenment addressing the concepts of human nature, liberty, equality, authority, rights and the relationship between political and morals. Credit units: 3. Aut (A. Çırakman)

POLS 437  Politics and Literature  
This course moves into the realm of cultural studies and examines the interaction between political attitudes/decisions/behavior and literature at different points of modern history, beginning in the late imperialist age and continuing into the period of the Cold War. Obvious texts are Kipling, Conrad, Orwell, Koestler, but lighter and more popular novels will also be studied. Students will be expected to do a considerable amount of reading of whole novels and excerpts, as well as theoretical studies. Credit units: 3. Aut (J. Salt)

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. Aut (J. Thurman)

POLS 442  Topics in American Politics  
This course examines a number of contemporary developments and public policy issues that impact the political agenda in the United States. The aim is to gain some understanding of the processes, institutions, and objectives of American Government and to develop some insight into the fundamental difficulties inherent in a system based in principle on both liberty and equality, the individual and the community. Credit units: 3.

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. Aut (I. F. Gençkaya)

POLS 444  Politics of Sustainable Development  
The course aims to provide an understanding of the relationship between political and economic change in the world economy and debates over resource use and environmental issues. The focus is international and has particular stress on the developing countries. It argues that environmental problems need to be looked at internationally, in terms of the global economic system and that the degradation of the environment is the result of an historical process linked to economic and political structures. Credit units: 3.

POLS 445  Literature, Politics and Propaganda  
A study of the connections between history, politics and both literature and propaganda. As they relate to political behavior and as they reflect stages of history. A substantial part of the course will relate to the formations of images and stereotypes and how these are developed in political situations. Case studies (including situations in which Turkey is involved) are included to make the point. Credit units: 3.
POL 446 Gender, Health and Politics
This course provides an overview of different health care systems while exploring the gendered nature of health care. In this course, women's mental and physical health issues in relation to women's lives and women's role in society will be examined. Women's role both as consumers and practitioners, in the health care systems will be discussed. Credit units: 3.

POL 447 Political Economy of Turkey
This course is designed to enlarge the knowledge of students about Turkish politics by focusing on economic aspects of Turkish modernization. It deals with development and industrialization strategies since the beginning of Turkish Republic. Special attention is paid to recent economic life in Turkey. Credit units: 3.

POL 448 Politics of Organizations
This course aims at equipping the students with the knowledge on the theoretical frameworks on organizations in general, and providing a basic understanding of the mechanisms, interactions, conflicts, negotiations and political attitudes and behavior of the organizations. Organizations in question are not only limited to the political sphere, all other types of organizations such as the firms, NGOs, international organizations, bureaucratic agencies, etc. that all have a political role to play in modern societies will be considered. The course is designed as a workshop, therefore the lectures will be complemented with analyses of real situations, simulation games and case studies in which the students are expected to take part actively. Credit units: 3.

POL 450 Politics of Population
A study and of the political context of human populations. The main concepts in the field of population studies. Contemporary issues concerning population and politics. Application of a knowledge of population to wider social, political and economic concerns. Credit units: 3. Spr (A. Türkün)

POL 451 Comparative Political Economy of Development
This course examines various topics in the comparative political economy of the Third World. Because this course is organized by thematic queries, no one region or country is singled out for study, but examples are selectively drawn from Asia, Africa, Latin America, and the Middle East. Topics include (but are not limited to) the debate over the meaning of the ‘Third World’. Orientalist constructions of the Third World, the role of capitalism and imperialism in the making of the Third World, problematization of the notion of development, and post-colonial responses to globalization. Credit units: 3.

POL 452 State Society and Citizenship in Turkey
The recent decades have witnessed the revival of the interest on citizenship issues worldwide. This course aims at analyzing the issue of citizenship in Turkey with respect to its relations with the state and society. The first part of the course will provide the students with theories on citizenship, how it emerged and developed, and various aspects of citizenship in the current literature. In the second part of the course, related with the contemporary debates on citizenship, namely identity politics, multiculturalism and constitutional citizenship, the Turkish experience will be analyzed. This part will consist of the historical background, the construction attempts, legal process and the current situation in Turkey. Credit units: 3.

POL 453 Comparative Legislatures
The structure of legislatures. Their decision-making and representational functions. The impact of legislatures on the polity and society. Interactions between legislatures on one hand, and political parties, bureaucracy and the people on the other. Credit units: 3.

POL 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. Spr (J. Salt)

POL 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. Aut (A. Güney, L. Yanik)

POL 456 Politics of Conflict Resolution
The Aim of the course is firstly to introduce scholarly debates regarding the nature and origins of nationalism, which will be preparation for the second part of the course; secondly to discuss the major methods used by states to eliminate or manage national and ethnic conflicts and examine some of the accompanying explanatory and normative literature; thirdly to take up case studies that will illuminate arguments that explain both conflict and modes of conflict regulation. Credit units: 3.
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. Spr (A. Çınar)

POLS 462 Globalization: Theories and Experiences
The object this course is to critically analyze different theories, and experiences of globalization. In the first part of the course those theories and approaches will be focused. The second part will take Turkey as a case. the Turkish experience of globalization will be studied. 
Credit units: 3.

POLS 464 Interculturalism and Europe
This course will cover the conceptual and practical aspects of interculturalism in Europe from an interdisciplinary perspective. It will focus on how cultural diversity is perceived and experienced by individuals (based upon anthropological studies) and the immigration policies and politics of the European Union since the end of Cold War. 
Credit units: 3. Aut (Z. Tandoğan)

Graduate Courses

POLS 502 Survey Research

POLS 503 Politics in the First Turkish Republic 1923-1960
Single-party years, transition to multi-party politics, Democrats in power. Focus on some important political milestones such as the Progressive Republican People’s Party, the Free Republican Party, Independents, gradual democratization from 1939 onward, the 1946 Elections, the Democrats in opposition, the 1950 elections, tense relations between the Democrats and the Republicans, and the developments toward the 1960 military intervention. Credit units: 3.

POLS 505 Aspects of Turkish Politics I
This is the first part of a two-semester course on Turkish politics. The course is about the principal actors in Turkish political life. The focus will be on such state elite as presidents, bureaucrats, and officers and about such political elite as politicians and such other civil societal actors as businessmen, professionals, and women. This course will be followed by a course on basic issues in Turkish politics. Credit units: 4. Aut (U. Cizre)

POLS 506 Aspects of Turkish Politics II
This is the second part of a two-semester course on Turkish politics. The course is about the principal issues in Turkish political life. The focus will on such issues as Islam, nationalism, political patronage, and the consolidation of democracy in Turkish politics. Credit units: 3. Spr (E. Ozbudun)

POLS 514 Comparative Politics and Ideology in the Middle East
Thematic study of politics and ideologies in the contemporary Middle East. Particular emphasis on selected countries such as Iran, Lebanon, Israel, Egypt, Saudi Arabia, Iraq, and Turkey. Impact of problems arising from rapid social change on the political processes. Islam and Politics. Credit units: 4. Spr (H. Shambayati)

POLS 517 Politics and Ideology
A genealogy of the contested dimensions of the concept of ideology since its earliest appearance. Credit units: 4.

POLS 521 Comparative Politics
The dynamics of political change; the major models of transformation and political modernization; major political ideologies, such as liberalism, conservatism, fascism; the post-War key political institutions in West European systems. Credit units: 4.

POLS 531 Turkish Politics
Turkish constitutional and political system. The state, the bureaucracy, political parties, interest groups, the executive and parliament, the military, Islam, ethnicity, democracy. Credit units: 4. Aut (E. Ozbudun)

POLS 537 Party Systems and Voting Behavior in Turkey
Turkish party system since the transition to multi-party system. Voting behavior in Turkey. Credit units: 4.

POLS 541 Political Theory
Theoretical issues. Underlying assumptions behind theoretical debates. Credit units: 4. Aut (B. Helvacioğlu)
POL 547  Contemporary Social and Political Movements
Present-day social movements from a comparative and historical perspective. The nature, characteristics, causes and possible outcome of social movements. Credit units: 4.

POL 551  Pre-Thesis Seminar I
Credit units: 4. Aut (Staff)

POL 553  Research Methods
Quantitative and qualitative methods of analysis and data collection techniques, measurement and interpretation of data in the light of guiding theories/models/hypotheses. Credit units: 4. Aut (D. Cindo˘glu)

POL 554  Seminar on Political Theory
The seminar focuses on the conflict between natural reason and revealed truth and attempts to mediate that conflict in the natural right tradition of political philosophy. Readings include Spinoza, Maimonides, Hobbes, Michelelet, Hegel and Nietzsche and contemporary characterizations of this problem of the “limits” of reason in politics. Credit units: 4.

POL 559  Turkish Political Thought
A survey of the main currents and their selective representatives in Turkish political thought since 1908 like liberalism, nationalism, socialism, feminism, and political Islam. Credit units: 4.

POL 563  Politics of Industrialization
Historical evolution of the major theories and debates on the processes and the structures of the development/underdevelopment in post second World War period. Conceptualizations of modes of industrialization. Relative importance attached by different theories to the crucial stimulants and organizers for development: the state and the domestic factors in the context of development of capitalism as a global system. Credit units: 4.

POL 565  European Politics
This course aims at providing the Ph.D. students with a basic understanding of European politics. The course will do so first, by analyzing the historical background of European politics from the Peace of Westphalia and onwards, with specific emphasis on the state-building process in Western Europe. Second, the course will focus on post-World War II developments in European politics, such as European integration. Third, the course will analyze the challenges in European politics today, specifically those posed by integrative and fragmentary forces.

The course aims to provide a comparative analysis of European politics in a multi-disciplinary manner. Credit units: 4.

POL 568  Urban Politics
Brief introduction to urban politics at the global level, followed by Third World urbanization and urban politics in the Third World, with a focus on the Turkish case. Effects of mass migration, and hence rapid urbanization, on urban politics. Politics defined broadly as any attempt to grasp and exercise power in the context of unequal relationships. Inequalities in the city, including gender, ethnicity and class, and the role of migration in restructuring or challenging them in the urban context. Credit units: 3. Aut (T. E. Erman)

POL 575  Trends in Global Politics
This course is an attempt to map the theories of globalization and to explore the economic, political and cultural impact of globalization on society. Attention will be paid to changing parameters of politics in the post-Cold War era, especially within the context of such issues as the crisis of the nation-state system, the dissolution of domestic economy, and the dismantling of national identity. The objective of the course is to assist critically the utility of the notion of globalization for an analysis of social change, and discuss the specific patterns of interactions of the global, the national, and the local levels. Credit units: 4.

POL 579  Pre-Thesis Seminar II
Credit units: 3. Spr (Staff)

POL 580  Seminar on Contemporary Turkish Politics
Selected topics in Turkish politics from 1980 to present. Emphasis on the changing role of the state, transition to and consolidation of democracy, and the emerging role of civil society in the Turkish polity. Credit units: 4.

POL 584  Politics of Nationalism and Ethnicity
Historical origins, defining characteristics, and typologies of nationalism. “New” nationalism. The debate on nation, nation-state, citizenship, identity, culture and ethnicity. Credit units: 4. Spr(¸. Cizre)

POL 586  Enlightenment and Modern State
This is an advanced course on enlightenment thought and its legacy which are still heated matters of scholarly debate. The aim of this course is to explore and discuss the major themes and premises of enlightenment with an understanding that one could delineate the idea of “modern state” and its diverse connotations which are often summed up as “emancipation” and “domination”. This year emphasis will be on the Scottish and French enlightenment. Credit units: 4.

POL 587  Reading and Research in Turkish Politics
Credit units: 4.
POLS 588  Turkish Social Thought
Examines Turkish social theorizing about Turkish society during the period 1930-1980, with special attention to
efforts to understand and interpret the Turkish regime in relation to democracy, culture, and the crisis of state
and society. Major themes will include the interpretation of Turkish history and culture; the uniqueness of Turkish
identity, the idea of progress and civilization; and the relation between economic well-being and democratic life.
Authors to be studied included Ziya Gökalp, Ismail Baltacıoğlu, Cemil Meriç, Şerif Mardin, Mülbeccel Kiray,

POLS 599  Master’s Thesis
Credit units: None. Aut (Staff) Spr (Staff)

POLS 699  Ph.D. Dissertation
Credit units: None. Aut (Staff) Spr (Staff)
The Faculty of Education, in conjunction with the Graduate School of Education offers:

- 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 Education Management

In addition, sports courses are offered through the Faculty's Physical Education Unit.

**ACADEMIC STAFF**

Necmi Aksıt, Instructor  
Ph.D., Educational Sciences, Middle East Technical University, 1998.

Tijen Aksıt, Instructor  
M.A., English Language Teaching, Middle East Technical University, 1996.

Armağan Ateşkan, Instructor  

Bülent R. Bozkurt*, Professor  
Ph.D., English Literature, Hacettepe University, 1972. Shakespeare, Renaissance poetry, literary terms, translation.

Cynthia Crippin, Instructor  

M. Hamit Çalışkan*, 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.

Birtane Karanakçı*, Instructor  

Rüçhan Kayalar*, Instructor  

Valerie Kennedy*, Assistant Professor  

Leonard H. Knight*, Instructor  
Ph.D., English Literature, University of Wales, 1961. Shakespeare, Elizabethan and Jacobean literature, modern drama.

---

* By courtesy of the Department of English Language and Literature.
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 Küknner, Instructor  

Anthony Lake*, Instructor  
Ph.D., English Literature, University of Sussex, 1996. Victorian literature, travel writing, romanticism, literature and naturalism, literary theory.  

Patrick Lyons, Instructor  

Julie Mathews-Aydınlı, Instructor  

Paul Nelson, Visiting Professor  

John O’Dwyer, 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.  

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.  

William Snyder, Assistant Professor  
Ph.D., Linguistics, Northwestern University, 1995. TEFL, applied linguistics, second language acquisition, psycholinguistics, teacher cognition writing systems and written language.  

Sema Taşkin*, Instructor  
Ph.D., English Literature, Hacettepe University, 1999. 20th century poetry, romantic poetry, victorian literature.  

Kimberly D. Trimble, Visiting Associate Professor  

Elif Uzel*, Instructor  
Ph.D., English Language Teaching, Middle East Technical University, 2002.  

* By courtesy of the Department of English Language and Literature.
PART-TIME ACADEMIC STAFF

Mesut Duran, Ph.D., Curriculum and instructional technologies, University of Michigan, 2000.
Martin Endley, Ph.D., Philosophy of Language, University of Cambridge, 1996.
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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<tr>
<th>Semester</th>
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<td>ELIT 115 Oral Expression Discussion and Presentation</td>
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<td>HCIV 101 History of Civilization I</td>
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<td>Spring</td>
<td>CS 121 Introduction to Computing for Social Sciences</td>
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<td>ELIT 114 Critical Reading</td>
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<td>HCIV 102 History of Civilization II</td>
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SECOND YEAR

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<td>ELIT 211 Translation I</td>
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<td>ELIT 215 Oral Expression and Public Speaking</td>
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<td>ELIT 283 Short Story I</td>
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<td>PHIL 241 Social and Political Philosophy I</td>
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<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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Spring Semester
- ELIT 212 Translation II .................................................. 3
- ELIT 242 Introduction to Drama ........................................ 3
- ELIT 270 Poetry .............................................................. 3
- ELIT 284 Short Story II ..................................................... 3
- PHIL 242 Social and Political Philosophy II ........................ 3
- ENG 242 Sophomore Academic English II ............................. 3
- HIST 202 History of Turkish Republic II ............................... 2

Autumn Semester
- ETE 301 Introduction to Linguistics I ................................. 3
- ELIT 326 Non-fictional Prose ............................................. 3
- ELIT 357 Shakespeare ...................................................... 3
- ELIT 361 Modern British Fiction I (to the 1950s) .................... 3
- AMER 291 Survey of American Literature I ............................. 3
- HUM 111 Cultures, Civilizations and Ideas I ........................ 3

Spring Semester
- ETE 302 Introduction to Linguistics II ................................. 3
- ELIT 362 Modern British Fiction II (1950s to present) .......... 3
- ELIT 431 World Literature ................................................. 3
- AMER 292 Survey of American Literature II ......................... 3
- AMER 383 American Novel to 1900 .................................... 3
- HUM 112 Cultures, Civilizations and Ideas II ......................... 3

Autumn Semester
- ETE 401 Language Syllabus Development ............................ 3
- ELIT 411 History of English Language ................................ 3
- ELIT 473 Modern Poetry ................................................... 3
- AMER 384 American Novel From 1900 ................................ 3

Spring Semester
- TE 501 Introduction to Teaching Profession ........................ 3
- TE 502 Development and Learning ..................................... 3
- TE 506 Planning and Assessment in Teaching ........................ 4
- TE 511 Special Teaching Methods I .................................... 3
- TE 513 School Experience I .............................................. 3

Autumn Semester
- TE 503 Classroom Management ......................................... 3
- TE 504 Educational Technology and Materials Development ...... 3
- TE 512 Special Teaching Methods II .................................... 3
- TE 514 School Experience II ............................................. 3
- Elective (1) ........................................................................ 3

Spring Semester
- TE 505 Guidance ............................................................. 3
- TE 507 Subject Area Textbook Review ................................ 3
- TE 515 Teaching Practice ................................................. 5
- Elective (2) ........................................................................ 6

UNDERGRADUATE ELECTIVES
- ELIT 130 Selections from English Literature (to the Restoration) 3
- ELIT 261 The English Novel I (18th Century) .......................... 3
- ELIT 262 The English Novel II (19th Century) .......................... 3
- ELIT 355 Major Writers of the Renaissance .............................. 3
- ELIT 441 British Drama I (from the Restoration to the 1950s) .... 3
ELIT 442    British Drama II (from the 1950s to present) ............................................. 3
ELIT 474    20th Century Poetry ................................................................. 3
AMER 343    American Theater ................................................................. 3
AMER 374    American Poetry ................................................................. 3
AMER 418    Contemporary American Short Story ........................................... 3

GRADUATE ELECTIVES

ETE 501    Development of Instructional Materials ........................................... 3
TEFL 501    Second Language Acquisition ................................................... 3
TEFL 506    Sociolinguistics ........................................................................... 3
TEFL 510    Language Testing .......................................................................... 3
EDEB 506    Literature of the Republic ......................................................... 3
EDEB 524    The Turkish Novel ......................................................................... 3
EDEB 530    Literary Translation ...................................................................... 3

COURSE DESCRIPTIONS

UNDERGRADUATE COURSES

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.

ETE 301    Introduction to Linguistics I
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.

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.

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.

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.

1 For description of ELIT courses see the Catalog Section for the Department of English Language and Literature
MA PROGRAM IN TEACHER EDUCATION


Part-time: M. Duran, M. Engin.

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

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SECOND YEAR

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### BIOLOGY TEACHING

#### FIRST YEAR

**Autumn Semester**

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### TURKISH LANGUAGE AND LITERATURE TEACHING

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HISTORY TEACHING

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MATHEMATICS TEACHING

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### 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. Aut (P. Nelson)**

**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. Spr (P. Nelson)**

**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. 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.**

**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.**

**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. Aut (N. Akşit)**

**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. Spr (P. Lyons)**

**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. Aut (N. Akşit, A. Ateşkan, C. Crippin, M. Engin, P. Nelson, R. Özyürek, M. K. Sands)**
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, Prerequisite: TE 511. Spr (N. Akşit, A. Ateşkan, C. Crippin, M. Engin, P. Nelson, M. K. Sands, E. Sezer)

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. Aut (N. Akşit, C. Crippin, P. Nelson, R. Özyürek, M. K. Sands)

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, Prerequisite: TE 513. Spr (N. Akşit, A. Ateşkan, C. Crippin, P. Nelson, E. Sezer)

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, Prerequisite: TE 514. Spr (N. Akşit, M. Engin, P. Nelson, M. K. Sands, E. Sezer)

TE 516  Special Teaching Methods in English
This course provides and 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.

TE 521  History of Political and Educational Philosophy
The course introduces students to philosophical thinking about the relationship between human nature, society, and education. It focuses on the study of key texts in the history of philosophy and educational thought including Plato's Republic, Rousseau's Emile, and the writings of John Dewey. There is a strong emphasis on the development of students' critical reasoning skills, and on doing philosophy rather than merely reading about it. Students are encouraged to take responsibility for their own learning throughout the course, and to think about the implications of the views discussed for their own pedagogical practice. Credit units: 3. Spr (G. S. Bowe)

TE 522  Understanding Arguments
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; and
- 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 required to have 2 years of teaching experience. Applicants must also successfully pass 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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Summer School

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. Aut (W. Snyder)

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.

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. Aut (M. Endley)

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.

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. Aut (Staff)

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. Aut (J. Mathews-Aydınlı)

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.

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.

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.

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. Aut (J. Mathews-Aydınlı)

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.

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.
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.

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. Aut (W. Snyder)

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.
MA PROGRAM IN EDUCATION MANAGEMENT


The Masters of Arts in Management in Education 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

<table>
<thead>
<tr>
<th>Autumn Semester</th>
<th>Spring Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>ME 511 Introduction to Development and Learning</td>
<td>ME 522 Managing Learning Methods I</td>
</tr>
<tr>
<td>ME 527 Linguistics and Lexical Studies</td>
<td>ME 524 Developing Practice I</td>
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</table>

SECOND YEAR

<table>
<thead>
<tr>
<th>Autumn Semester</th>
<th>Spring Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>ME 512 Managing the Curriculum I</td>
<td>ME 521 Managing the Classroom</td>
</tr>
<tr>
<td>ME 523 Managing Learning Methods II</td>
<td>ME 525 Developing Practice II</td>
</tr>
<tr>
<td>ME 526 Planning Teaching and Practice</td>
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</tbody>
</table>

THIRD YEAR

<table>
<thead>
<tr>
<th>Autumn Semester</th>
<th>Spring Semester</th>
</tr>
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<tbody>
<tr>
<td>ME 501 Managing Organizational Processes</td>
<td>ME 503 Accounting, Financial Management and School Administration</td>
</tr>
<tr>
<td>ME 502 Human Resources Management</td>
<td>ME 504 Computing for Organizational Needs</td>
</tr>
<tr>
<td>ME 513 Managing the Curriculum II</td>
<td>ME 505 Management in Action</td>
</tr>
</tbody>
</table>
ELECTIVES

<table>
<thead>
<tr>
<th>Course Code</th>
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<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 well as the issues of accountability, planning, and communication. 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.

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, 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.

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.

ME 504  Computing for Organizational Needs
This course aims to give students the necessary skills in word processing, spreadsheets and database 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.

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 giving presentations. Students will be observed by the visiting tutor in meetings and giving presentations. Credit units: 3.

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.

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.

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. Prerequisite: ME 512.

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.

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.
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, Prerequisite: ME 522.*

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.*

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, Prerequisite: ME 524.*

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.*

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. Aut (S. Phipps)*
The Faculty of Engineering comprises three academic departments:

- Computer Engineering
- Electrical and Electronics Engineering
- Industrial Engineering

Instruction in the Faculty of Engineering aims not only to impart contemporary engineering and scientific knowledge in the disciplines concerned, but also to include creativity, analysis, synthesis, integrative capabilities and self-development. 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. 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. 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.

**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, Associate Professor

Murat Alanyali, Assistant Professor (on leave)
Ph.D., Electrical and Computer Engineering, University of Illinois at Urbana-Champaign, 1996. Communication networks, stochastic analysis.

Osman Alp, Assistant Professor
Ph.D., Industrial Engineering Department, METU 2000. Inventory models, supply chain management, logistics, transportation of hazardous materials.

Ayhan Altintas, Professor

Erdal Arikan, Professor (on leave)

Orhan Arican, 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, Visiting Professor
Ph.D., Electrical and Electronics Engineering, Bilkent University, 1991. Image guided medical interventions, magnetic resonance imaging, antenna design for MRI.

Cevdet Aykanat, Professor
Ph.D., Electrical and Computer Engineering, Ohio State University, 1988. Parallel architectures, parallel algorithms, graph/hypergraph partitioning.

Orhan Aytur, Professor

Mehmet Baray, Professor

Billur Barshan, Professor

Cengiz Çelik, Instructor

Enis Çetin, Professor

Ilyas 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, expert systems, information retrieval, computer-aided education.

Tuğrul Dayar, Associate Professor

Ali Doğramaci, Professor
Ph.D., Industrial and Management Engineering, Columbia University, 1975. Production management and productivity analysis.

Üğur Doğrusöz, Assistant Professor
Ph.D., Computer Science, Rensselaer Polytechnic Institute, 1995. Graph visualization, informatics, combinatorial algorithms, and graph theory.

Oya Ekin-Karaşan, Assistant Professor

Figen Eren, Instructor

Vakur B. Ertürk, Assistant Professor

Mehmet Murat Fadroğlu, 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.

Üğur 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, Visiting Professor
Ph.D., Biomedical Engineering, Northwestern University, 1979. Electrical impedance tomography, magnetic resonance imaging, acquisition and processing of physiological signals, PC based instrumentation.

Mehmet Hakan Karaata, Visiting Assistant Professor
Ph.D., Computer Science, University of Iowa, 1995. Mobile computing, distributed systems, self-stabilizing systems, software engineering.

Hazım Murat Karamüftüoğlu, 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. (joint appointment with department of communication and design)

Ezhan Karaşan, Assistant Professor
Ph.D., Electrical and Computer Engineering, Rutgers University, 1995. Broadband integrated networks, traffic and switching theory, optical networks, information and coding theory.

İbrahim Körpeoğlu, Assistant Professor

Hayrettin Köymen, Professor
Ph.D., Electrical Engineering, University of Birmingham, 1979. Acoustic imaging, linear and finite amplitude acoustics, medical instrumentation, processing and modeling of physiological signals.

Ömer Morgül, Professor

Aysçe 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.

Yavuz Oruç, Visiting Professor

Haldun Özaktaş, Professor
Ph.D., Electrical Engineering, Stanford University, 1991. Optical information processing, signal and image processing, optoelectronic and optically interconnected computing systems.

Hitay Özbay, Professor (on leave)
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.
Bülent Özguc, Professor

A. Bülent Özgüer, Professor

Mustafa Ç. Pınar, Associate Professor

Tarkan Reyhan, Senior Lecturer
Ph.D., Electrical Engineering, University of Birmingham, 1981. Radio communication, RF design, thermal imaging, electro-optics.

Ihsan Sabuncuoglu, Professor

William Sawyer, Instructor
M.S., Electrical Engineering, Northeastern University, 1988. Digital design, CAD tools, computer architecture.

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.

Pınar Şenkul, Instructor

Mehmet Rüştü Taner, Assistant Professor

Barbaros Tansel, Professor

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 Üstünler, Instructor (on leave)

Hande Yaman, Assistant Professor
Bahar Yetiş, Assistant Professor
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>Semester</th>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Autumn Semester</td>
<td>CS 101</td>
<td>Algorithms and Programming I</td>
<td>4</td>
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<tr>
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<td>MATH 101*</td>
<td>Calculus I</td>
<td>4</td>
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<tr>
<td></td>
<td>MBG 110</td>
<td>Introduction to Modern Biology</td>
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<td>GE 100</td>
<td>Orientation</td>
<td>1</td>
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<td></td>
<td>EN 101</td>
<td>English and Composition I</td>
<td>3</td>
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<td>TURK 101</td>
<td>Turkish I</td>
<td>2</td>
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<tr>
<td>Spring Semester</td>
<td>CS 102</td>
<td>Algorithms and Programming II</td>
<td>4</td>
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<td>MATH 102*</td>
<td>Calculus II</td>
<td>4</td>
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<td>MATH 112</td>
<td>Intermediate Calculus II</td>
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<td></td>
<td>MATH 132</td>
<td>Discrete and Combinatorial Mathematics</td>
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<tr>
<td></td>
<td>EN 102</td>
<td>English and Composition II</td>
<td>3</td>
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<tr>
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<td>TURK 102</td>
<td>Turkish II</td>
<td>2</td>
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</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 115 sequence or MATH 113 - MATH 114 sequence in place of MATH 101 - MATH 102.

SECOND YEAR

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Autumn Semester</td>
<td>CS 201</td>
<td>Fundamental Structures of Computer Science I</td>
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<td>CS 223</td>
<td>Digital Design</td>
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<td></td>
<td>PHYS 101</td>
<td>General Physics I</td>
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<tr>
<td></td>
<td>MATH 220</td>
<td>Linear Algebra</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>HUM 111</td>
<td>Cultures Civilizations and Ideas I</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>HIST 201</td>
<td>History of Turkish Republic I</td>
<td>2</td>
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<tr>
<td>Spring Semester</td>
<td>CS 202</td>
<td>Fundamental Structures of Computer Science II</td>
<td>3</td>
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<td></td>
<td>CS 224</td>
<td>Computer Organization</td>
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<td></td>
<td>PHYS 102</td>
<td>General Physics II</td>
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<td>MATH 240</td>
<td>Differential Equations</td>
<td>3</td>
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<td></td>
<td>HUM 112</td>
<td>Cultures Civilizations and Ideas II</td>
<td>3</td>
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<tr>
<td></td>
<td>HIST 202</td>
<td>History of Turkish Republic II</td>
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### THIRD YEAR

#### Autumn Semester
- CS 299  
  Summer Training I ......................................................... -
- CS 315  
  Programming Languages .................................................. 3
- CS 319  
  Object-Oriented Software Engineering ................................ 4
- CS 351  
  Data Organization and Management .................................... 3
- MATH 250  
  Introduction to Probability ............................................. 3
- GE 301  
  Science Technology and Society ....................................... 2
  Humanities or Social Sciences Elective (1) ............................. 3

#### Spring Semester
- CS 342  
  Operating Systems ................................................................... 4
- CS 352  
  Database Management Systems ........................................... 3
- Restricted Electives (2) ............................................................ 6
  Humanities or Social Sciences Elective (1) ............................. 3

### FOURTH YEAR

#### Autumn Semester
- CS 399  
  Summer Training II .............................................................. -
- CS 473  
  Algorithms I ............................................................................ 3
- IE 400  
  Principles of Engineering Management ................................ 3
- ENG 401  
  Technical Report Writing and Presentation ............................ 2
  Restricted Electives (3) ........................................................... 9

#### Spring Semester
- CS 476  
  Automata Theory and Formal Languages ................................ 3
- CS 492  
  Senior Project ........................................................................... 3
  Restricted Electives (3) ............................................................ 9

### HUMANITIES and SOCIAL SCIENCES ELECTIVES

A list of approved elective courses is announced at the beginning of each semester by the Department.

### RESTRICTED ELECTIVES

- CS 413  
  Software Engineering Project Management ............................ 3
- CS 416  
  Compiler Design ..................................................................... 3
- CS 421  
  Computer Networks .................................................................. 3
- CS 423  
  Computer Architecture ............................................................. 3
- CS 442  
  Distributed Systems and Algorithms .................................... 3
- CS 461  
  Artificial Intelligence .............................................................. 3
- CS 465  
  Computer Graphics I ............................................................... 4
- CS 466  
  Computer Graphics II ............................................................. 4
- CS 468  
  Principles of User Interface Design ...................................... 3
- CS 471  
  Numerical Methods .................................................................. 3
- CS 482  
  Logic for Computer Science .................................................. 3
- MATH 313  
  Real Analysis I ................................................................. 3
- MATH 453  
  Algebraic Number Theory ..................................................... 3
- MBG 326  
  Introduction to Bioinformatics .............................................. 3
- EEE 212  
  Microprocessors ....................................................................... 4
- EEE 391  
  Basics of Signals and Systems .............................................. 3
- EEE 435  
  Network Architecture and Service Provider Planning .............. 3
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, formal semantics, machine learning and data mining), natural language processing, databases (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, CS518 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 (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. 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 (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. 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

UNDERGRADUATE COURSES

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. Aut (D. Davenport) Spr (M. Baray)
CS 102  Algorithms and Programming II
Time and space considerations. Students undertake a large design project involving teamwork, independent 
learning, writing and presenting requirements report, user-interface design, and project documentation. Credit 
units: 4, Prerequisite: CS 101. Spr (D. Davenport)

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. Aut 
(M. Baray, C. Çelik, P. Şenkul) Spr (Staff)

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, 
queue and trees. Students undertake a large design project involving teamwork, independent learning, writing 
and presenting requirements report, user-interface design, and project documentation. Credit units: 4, Prereq-
usite: CS 111 or CS 101; CS 111. Spr (C. Çelik, P. Şenkul)

CS 111  Introduction to Object-Oriented Programming
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. Aut 
(M. Baray, C. Çelik, P. Şenkul) Spr (Staff)

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, 
queue and trees. Students undertake a large design project involving teamwork, independent learning, writing 
and presenting requirements report, user-interface design, and project documentation. Credit units: 4, Prereq-
usite: CS 111 or CS 101; CS 111. Spr (C. Çelik, P. Şenkul)

CS 121  Introduction to Computing for Social Sciences
This course is taught in a class with a PC and projector. Mainly, students enhance their understanding of Excel 
2000, and Access 2000 in PC labs (2 hours per week). But also course makes an introduction to Word 2000, 
and Front Page 2000 packages. Extra readings will be given from Front Page 2000 and Word 2000. Students 
receive an exercise sheet every week in lbs. Topics of a package are finish that exercise within two hours in lab. 
Exams are also in the PC labs. Topics of a package are checked by a different exam. This way, students are 
expected to be efficient in computer using. Credit units: 3. Aut & (I. ˙Ipek, A. S. Mumcu, H. Öncül, O. Ozu, T. 
Saracoğlu) Spr (Staff)

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. Spr (Staff)

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. Aut (M. H. Erdag)

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 Locators) and cross references, multi media files, data entry forms, image maps, CGI 
(Common Gateway Interface) programs and the Java language. Credit units: 3, Prerequisite: CS 153. Spr (M. 
H. Erdag)

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 sys-
tems. 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, Prerequisite: CS 154. Aut (M. H. Erdag)

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, Prerequisite: CS 155. Spr (M. H. 
Erdag)

CS 201  Fundamental Structures of Computer Science I
Fundamental Structures of Computer Science Programming: control structures, arrays, pointers, classes, inher-
tance, virtual functions, I/O, templates, STL. Algorithm analysis: time-space complexity, asymptotic notation,
recurrence relations, program instrumentation, performance measurement. Introduction to data structures: abstraction, linear structures: lists, stacks, queues. Credit units: 3, Prerequisite: CS 101. Aut (T. Dayar, M. H. Karaata)

CS 202 Fundamental Structures of Computer Science II

CS 223 Digital Design

CS 224 Computer Organization
Basic computer organization and design. Instruction fetch, decode and execution. CPU organization. Hardwired and microprogrammed control organization. Arithmetic algorithms and arithmetic processor design. Input-Output organization. Memory organization. Machine language and assembly language. Instruction formats and addressing modes. Credit units: 3, Prerequisite: CS 223. Spr (W. Sawyer)

CS 280 Combinatorics and Graph Theory
The principle of inclusion and exclusion. Sums and recurrence relations including first and second-order linear recurrence relations, finite and infinite calculus, and 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. An introduction to graph theory including graph isomorphism. Euler tours, Hamiltonian paths and cycles, planar graphs, and graph coloring. Trees rooted trees and weighted trees. Optimization and matching including shortest path algorithm, minimal spanning trees, max-flow min-cut algorithm, matching theory. Credit units: 3.

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. 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, Prerequisite: CS 102 and CS 201. Aut (U. Degrusöz)

CS 342 Operating Systems
Introduction to operating systems concepts. The operating system as a resource manager. Command languages. Job management and job scheduling. Process management. Memory management, virtual memory, and paging. Interrupt structures and interrupt processing. Message-driven systems and data management. Device management, I/O systems, and I/O processing. Examples of operating systems such as MS-DOS, UNIX. Credit units: 4, Prerequisite: CS 101 and CS 224. Spr (L. 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. Object-oriented and object-relational databases. Distributed databases. Emerging database applications. Credit units: 3, Prerequisite: CS 331 or CS 351. Spr (E. ArkunÖ. 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, 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.

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 revisioning 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. Aut (˙I. C¸i c¸ekli)

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, Prerequisite: CS 315. Aut (˙I. C¸i c¸ekli)

CS 421  Computer Networks

CS 423  Computer Architecture

CS 424  Computer Network Programming

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, Prerequisite: CS 342. Spr (M. H. Karaata)

CS 461  Artificial Intelligence
logic, production systems, semantic nets, and frames. Knowledge base, expert systems, inference engine.
Machine learning: inductive inference, analogical inference, abductive inference, learning by instruction, learn-
ing from examples, conceptual clustering, explanation-based learning, connectionist learning (neural networks).
Vision, robotics. Credit units: 3. Aut (V. Akman)

CS 465  Computer Graphics I
Introduction to computer graphics. The rendering pipeline. Rasterization algorithms. Two-dimensional and
Credit units: 4. Aut (U. Güdükbay)

CS 466  Computer Graphics II
This laboratory-lecture course is an advanced application of computer graphics techniques. Shading, deforma-
tion, 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, Prerequisite: CS 465. Spr (B. Özgök)

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 interac-
tion techniques. Problems of functionality, clarity, complexity and efficiency in designing interfaces. Robustness
and error issues related to user interfaces. Credit units: 3. Aut (H. M. Karamüftuo˘glu) Spr (H. M. Karamüftuo˘glu)

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 inte-
gration. The problems of speed, accuracy and applicability of the topics are examined with related algorithms.
Credit units: 3, Prerequisite: MATH 220.

CS 473  Algorithms I
queues. Sorting in linear time. Dynamic programming. Greedy algorithms. Amortized analysis: aggregate,
accounting and potential methods, dynamic tables. Credit units: 3, Prerequisite: CS 202. Aut (C. Aykanat)

CS 476  Automata Theory and Formal Languages
Classification of automata and formal languages. Finite state machines, regular languages and their limitations.
Tape automata. Pushdown automata and context free languages. Normal form grammars. Turing machines,
Recursive functions. Credit units: 3, Prerequisite: CS 201. Spr (A. A. Selçük)

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. Spr (V. Akman)

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 senior student under the supervision of a faculty member. A written report
summarizing the accomplishments of the project and an oral presentation are required. (Students who pass GE
401 are required to take GE 402 in place of CS 492.) Credit units: 3. Aut (Staff) Spr (Staff)

GRADUATE COURSES

CS 502  Algorithms II
Elementary graph algorithms: breadth-/depth-first search, topological sort, strongly connected components.
Minimum spanning trees: algorithms of Kruskal and Prim. Single-source shortest paths: Dijkstra's and Bellman-
Ford algorithms, shortest paths in directed acyclic graphs. All-pairs shortest paths: Floyd-Warshall and Johnson's
algorithms. Parallel algorithms: pointer jumping, CRCW versus EREW, Brent's theorem, prefix computation,
Polynomials and the FFT. String matching: Rabin-Karp algorithm, string matching with finite automata, Knuth-
Morris-Pratt and Boyer-Moore algorithms. Elementary computational geometry algorithms. Approximation
algorithms: vertex-cover, traveling salesman and subset-sum problems. Credit units: 3, Prerequisite: CS 473 or
equivalent.

CS 511  Introduction to Performance Modeling
Introduction to modeling, review of probability theory, transforms in probability theory, programming simulations,
analyzing simulation results, stochastic processes and Markov chains, discrete vs. continuous time M\O s, state
classification, numerical solution techniques (direct, iterative), Little's M/M/1, M/M/∞, M/M/1/L/M queues, non-
birth-death systems (M/E/1), non-Markovian systems (M/G/1), Routing chain, M → M property, local balance,
solving open networks, solving closed networks, convolution, mean value analysis, case studies. Credit units: 3.

CS 512 Computer Networks
and message switching, network topology, virtual circuits, flow control, local area networks, Ethernet, token
ring networks, protocols, discussion of some networks and their properties, network planning and management.
Credit units: 3.

CS 513 Implications of the Internet
Basic concepts and history of the Internet. Origins of the information society. Access to information in the
networked world. The Internet as a communications medium. Publishing on the Internet. Selling goods and
services on the Internet. Entertainment on the Internet. Educational potential of the Internet. Security and
privacy issues. Censorship and politics of the Internet. Tensions between local vs. global, individual vs.
corporate, and democracy vs. authoritarianism in the context of Internet. Credit units: 3.

CS 515 Mobile and Wireless Networking
Wireless Link Characteristics, Wireless Media Access, Wireless and Mobile Network Architectures, Mobile
Routing, Mobile IP, Transport Protocols over Wireless Networks, Wireless LANs, Bluetooth Technology and
Applications, Wireless Cellular Networks, Wireless Application Protocol, Ad-hoc Networks and Routing, Device
and Service Discovery, QoS in Mobile Networks, Peer-to-Peer Networks and Applications. Credit units: 3. Aut
(I. Körpeoğlu)

CS 518 Capacity Planning for Web Services
Web services rely on large-scale systems that consist of thousands of computers, networks, software compo-
nents, 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. Spr (T. Dayar)

CS 519 Cryptography and Network Security
Fundamental concepts of cryptography, block ciphers, stream ciphers, public key encryption, differential and linear
cryptanalysis, the Advanced Encryption Standard, digital signatures, cryptographic hash functions, authentication
protocols, key distribution protocols, key management, security protocol pitfalls, Internet cryptography, IP sec.,
SSL/TLS, e-mail security, firewalls. Credit units: 3. 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.

CS 524 Algorithm Design for Parallel Computers
Taxonomy of parallel architectures. Interconnection networks. Basic communication operations. Performance of
parallel systems: speedup, efficiency, cost, granularity and data mapping, sources of parallel overhead. Scalability
of parallel systems: overhead function, isoefficiency, cost optimality, degree of concurrency. Matrix partitioning
schemes. Dense matrix transposition, matrix-vector multiplication, matrix-matrix multiplication, solution of linear
system of equations. Solution of sparse linear system of equations: iterative methods, load-balancing and
communication minimization, direct methods, scheduling problem. Credit units: 3. Spr (C. Aykanat)

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. Aut (Y. Oruç)

CS 532 Database Systems
Serializability theory. Locking, timestamp-ordering, optimistic schedulers. Multiversion and distributed concur-
currency control. Distributed atomic commitment protocols. Multidatabase systems. Active database systems.
Real-time database systems. Object-oriented database systems. Credit units: 3.
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.

CS 536  Distributed Database Systems

CS 540  Parallel Programming Languages-Systems
Parallel programming models, languages and environments. Fundamental concepts: memory hierarchy, communication, 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.

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.

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. Theoretical 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.

CS 550  Machine Learning

CS 558  Data Mining

CS 564  Computational Geometry
Algorithmic background, data structures, geometric preliminaries, models of computation. Geometric searching, point-location, problems, range-searching problems. Convex hulls, problem statement and lower bounds, convex hull algorithms in the plane, graham's scan, Jarvis's march, QUICKHULL techniques, dynamic convex hull, convex hull in 3D. Proximity problem, a collection of problems, a computational prototype: element uniqueness, lower bounds, the closest-pair problem: a divide-and-conquer approach, the Voronoi diagram, proximity problems solved by the Voronoi diagram triangulation, planar triangulations, Delaunay triangulation, intersections, application areas, planar applications: intersection of convex polygons, star-shaped polygons; intersection of line segments. 3D applications: intersection of 3D convex polyhedra; intersection of half-spaces. Credit units: 3. Spring (U. Gündükbay)

CS 565  Application of Computer Graphics
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.

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. Spr (U. Dgrusu\u015fe)

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.

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. Conditionals. Conditionals. Tense and modality. Con-
Situational set theory. Credit units: 3.

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. 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.

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.

CS 599  Master's Thesis
Credit units: None. 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.

CS 699  Ph.D. Dissertation
Credit units: None. Aut (Staff) Spr (Staff)
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING


The Department of Electrical and Electronics Engineering offers programs that lead to B.S., M.S., and Ph.D. degrees.

UNDERGRADUATE PROGRAM

The primary objective of the program is to provide students with the knowledge and skills needed for high quality engineering work as well as for advanced research. To achieve this objective the program emphasizes a solid background in basic sciences and mathematics, a strong preparation in certain areas of electrical engineering, sufficient training on the use of computers as a tool for analysis, design, computing, and control, and sufficient laboratory practice with systems and instruments of various sophistication. A second objective of the program is to provide the students with a broad intellectual spectrum. For this, the program includes various elective courses in economics, social sciences, humanities, and arts.

UNDERGRADUATE CURRICULUM

FIRST YEAR

<table>
<thead>
<tr>
<th>Autumn Semester</th>
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<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 100</td>
<td>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>
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<tr>
<th>Spring Semester</th>
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<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 115 sequence or MATH 113 - MATH 114 sequence in place of MATH 101 - MATH 102.

SECOND YEAR

<table>
<thead>
<tr>
<th>Autumn Semester</th>
<th></th>
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<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>TURK 101</td>
<td>Turkish I</td>
</tr>
<tr>
<td>Technical Elective (2)</td>
<td>4-8</td>
</tr>
</tbody>
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<tr>
<th>Spring Semester</th>
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<tbody>
<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>Technical Elective (1)</td>
<td>2-4</td>
</tr>
</tbody>
</table>
### THIRD YEAR

**Autumn Semester**
- EEE 299  Summer Training I  ..........................................................  
- EEE 313  Electronic Circuit Design  ...............................................  4  
- EEE 321  Signals and Systems  ......................................................  4  
- EEE 351  Engineering Electromagnetics  ........................................  3  
- HIST 201  History of Turkish Republic I  ......................................  2  
- UR Elective (1)  .................................................................................  0-3  
- Humanities or Social Sciences Elective (1)  .................................  3  

**Spring Semester**
- MATH 250  Introduction to Probability  ..........................................  3  
- EEE 342  Feedback Control Systems  ...............................................  3  
- HIST 202  History of Turkish Republic II  ......................................  2  
- Restricted Elective (1)  .................................................................  3-4  
- UR Elective (1)  .................................................................................  0-3  
- Humanities or Social Sciences Elective (1)  .................................  3  

### FOURTH YEAR

**Autumn Semester**
- GE 301  Science Technology and Society  ........................................  2  
- EEE 399  Summer Training II  ..........................................................  
- Restricted Electives (3)  .................................................................  9-12  
- Unrestricted Elective (1)  ..............................................................  0-3  

**Spring Semester**
- EEE 492  Senior Project II  ............................................................  3  
- Restricted Elective (3)  .................................................................  9-12  
- Unrestricted Elective (1)  ..............................................................  0-3  

### RESTRICTED ELECTIVES
- CS 421  Computer Networks  ..........................................................  3  
- EEE 352  Applied Electromagnetics  .................................................  3  
- EEE 411  Telecommunication Electronics  ........................................  4  
- EEE 412  Microwave Electronics  ....................................................  4  
- EEE 414  Introduction to CMOS VLSI Design  ..................................  3  
- EEE 416  Principles of Applied Superconductivity  .............................  3  
- EEE 418  Principles of Electronic Devices  .........................................  4  
- EEE 424  Digital Signal Processing  ..................................................  4  
- EEE 427  Digital Coding of Waveforms  ..........................................  3  
- EEE 429  Optics  .............................................................................  4  
- EEE 429  Photonics  ......................................................................  3  
- EEE 431  Telecommunications I  ......................................................  3  
- EEE 432  Telecommunications II  .....................................................  3  
- EEE 434  Wireless Communications  ...............................................  3  
- EEE 435  Network Architecture and Service Provider Planning  ........  3  
- EEE 442  Nonlinear Systems  ...........................................................  3  
- EEE 443  Neural Networks  ..............................................................  3  
- EEE 445  Sampled Data Systems  .....................................................  3  
- EEE 447  Robotics and Sensing  ......................................................  3  
- EEE 451  Microwave Engineering  ...................................................  4  
- EEE 452  Antenna Engineering  ........................................................  4  
- EEE 473  Medical Imaging  ..............................................................  3  
- EEE 481  Biomedical Signals and Instrumentation  ...........................  3  
- EEE 491  Senior Project I  ...............................................................  3  

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 Eğitim Girişi 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 Eğitim Girişi 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

UNDERGRADUATE COURSES

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. Aut (A. Dana, L. Onural, 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. Spr (Y. Zider, M. E. Sezer)
EEE 202  
**Circuit Theory**
*Credit units: 4, Prerequisite: EEE 101. Spr O. Aktaş, M. Fardmanesh)*

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, Prerequisite: EEE 101 and PHYS 102. Aut O. Aktaş, H. Köymen)*

EEE 212  
**Microprocessors**
*Credit units: 4, Prerequisite: EEE 102. Spr (T. Reyhan)*

EEE 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 work on questions relevant to the company on the fundamental areas of Electronic Engineering. 
*Credit units: None. Aut (Staff)*

EEE 313  
**Electronic Circuit Design**
*Credit units: 4, Prerequisite: EEE 211 and EEE 202. Aut (O. Aytür)*

EEE 321  
**Signals and Systems**
Basic discrete and continuous signals and systems, linear time-invariant systems. Fourier analysis for continuous and discrete signals and systems, filtering, sampling of continuous time signals, elementary modulation techniques. 
*Credit units: 4, Prerequisite: EEE 202. Aut (L. Onural)*

EEE 342  
**Feedback Control Systems**
*Credit units: 3, Prerequisite: EEE 321. Spr (O. Morgül)*

EEE 351  
**Engineering Electromagnetics**
*Credit units: 3, Prerequisite: PHYS 102 and MATH 102. Aut (A. Altıntaş)*

EEE 352  
**Applied Electromagnetics**
*Credit units: 3, Prerequisite: EEE 351. Spr (V.B. Ertek)*

EEE 391  
**Basics of Signals and Systems**
*Credit units: 3. Spr (E. Atalar)*

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, Prerequisite: EEE 299 or EE 299. Aut (Staff)*
EEE 411  Telecommunication Electronics

EEE 412  Microwave Electronics

EEE 414  Introduction to CMOS VLSI Design
Introduction to CMOS circuits, MOS transistor theory, CMOS processing technology, CMOS circuit characterization. CMOS VLSI circuit design, clocking strategies, case studies. Credit units: 3. Prerequisite: EEE 313. Aut (A. Atalar)

EEE 416  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 in Josephson Junctions, principles of superconductive interference devices and applications. Credit units: 3. Prerequisite: EEE 202 and EEE 351.

EEE 418  Principles of Electronic Devices

EEE 424  Digital Signal Processing
Discrete-time signals and systems. Review of the z-transform. DFT and its computation. Some other linear transform. DCT, DST, Hilbert, Walsh, Hadamard, etc. Digital filters (FIR and IIR) and filtering. Introduction to multirate signal processing. Introduction to time-frequency representations. Inverse problems. Credit units: 4. Prerequisite: EEE 321. Aut (E. Çetin)

EEE 427  Digital Coding of Waveforms

EEE 428  Optics

EEE 429  Photonics

EEE 431  Telecommunications I
Time and frequency domain analyses 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. Prerequisite: MATH 250 and EEE 321. Aut (N. Akar)

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, Prerequisite: EEE 431. Spr (N. Akar)**

**EEE 434 Wireless Communications**

**EEE 435 Network Architecture and Service Provider 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 a 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 develop a business case built on engineering and business analysis of the market and involved technologies. **Credit units: 3.**

**EEE 442 Nonlinear Systems**

**EEE 443 Neural Networks**

**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, 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. Spr (E. Atalar)**

**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, Poiseuille, 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, precondititng circuits and instrumentation techniques. **Credit units: 3, Prerequisite: EEE 313 and EEE 351 and EEE 321. Aut (Y. Z. lider)**
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. 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. Aut (Staff) Spr (Staff)

GRADUATE COURSES

EEE 501  Linear System Theory

EEE 511  Telecommunication Electronics

EEE 512  Microwave Electronics

EEE 514  Introduction to CMOS VLSI Design
Introduction to CMOS circuits, MOS transistor theory, CMOS processing technology, CMOS circuit characterization. CMOS VLSI circuit design, clocking strategies, case studies. Recent topics and developments in Introduction to CMOS VLSI Design. Credit units: 3. Aut (A. Atalar)

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.

EEE 524  Digital Signal Processing
Discrete-time signals and systems. Review of the z-transform. DFT and its computation. Some other linear transforms. DCT, DST, Hartley, Hilbert, Walsh, Hadamard, etc. Digital filters (FIR and IIR) and filtering. Introduction to multirate signal processing. Introduction to time-frequency representations. Inverse problems. Recent topics and developments in digital signal processing. Credit units: 3. Aut (E. Çetin)

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. Spr (E. Çetin)

EEE 526  Digital Image Processing

EEE 527  Digital Coding of Waveforms
Sampling of band limited waveforms; characteristics of speech and image waveforms; quantization of discrete time signals. Pulse code modulation (PCM), differential PCM. Vector quantization, tree and Trellis coders. Subband coding, KL transform, DCT, DHT, OWHT, transform coding. Run-length coding of binary waveforms. Recent topics on digital coding. Credit units: 3.
EEE 528  Optics
Credit units: 3. Aut (H. Özaktas)

EEE 529  Photonics

EEE 531  Quantum Communications and Information Processing I
Quantization of electromagnetic field. Quantum states of light; coherence; squeezing. 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.

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. Aut (E. Karaşan)

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.

EEE 542  Nonlinear Systems

EEE 543  Neural Networks

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 digital signal processing. Credit units: 3. Aut (B.
Barshan)

EEE 551  Microwave Engineering
Transmission lines and waveguides. Circuit theory for waveguiding systems, scattering matrix formulation.
recent topics and developments in microwave engineering. Credit units: 3. Aut (V. B. Ertürk)

EEE 552  Antenna Engineering
Fundamentals of electromagnetic radiation. Antennas and antenna impedance. Small and finite size dipole
Moment methods. Radio wave propagation. Recent topics on antenna engineering. Credit units: 3. Spr (E.
Atalar)

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 applica-

EEE 556  Computational Methods in Electromagnetics
Classification of Electromagnetics Problems, Finite Difference Schemes, Finite Difference Time Domain Method,
Finite Element Method, Method of Moments. Credit units: 3. Spr (V. B. Ertürk)

EEE 573  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. Spr (E. Atalar)

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 behav-
ior, volume conductor fields, theory of Electrocardiography (ECG), ECG amplifiers and instrumentation, ECG
signal processing, EEG, EMG, and other bioelectric signals, model of the cardiovascular system, model of the
respiratory system, model of the neurocardiac control system, transducers for bioelectric, cardiovascular an
respiratory measurements; preconditioning circuits and instrumentation techniques. Recent topics and develop-
ments in biomedical signals and instrumentation. Credit units: 3. Aut (Y. Zilder)

EEE 591  Seminar
Seminars on recent topics in electrical and electronics engineering. Credit units: None. Spr (Staff)

EEE 599  Master's Thesis
Credit units: None. Aut (Staff) Spr (Staff)

EEE 603  Advanced Electromagnetic Theory I
Fundamentals of electrostatic and magnetostatic. Time varying fields Maxwell’s equations. Plane, cylindrical,
and spherical electromagnetic waves and boundary value problems. Waveguides and resonant cavities. Radi-
ating systems and diffraction. Introduction to special relativity. Credit units: 3. Aut (L. Gürel)

EEE 699  Ph.D.Dissertation
Credit units: None. Aut (Staff) Spr (Staff)
DEPARTMENT OF INDUSTRIAL ENGINEERING


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 (physics, chemistry, and biology). 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

Autumn Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 101</td>
<td>General Physics I</td>
<td>4</td>
</tr>
<tr>
<td>MATH 101*</td>
<td>Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>GE 100</td>
<td>Orientation</td>
<td>1</td>
</tr>
<tr>
<td>CS 111</td>
<td>Introduction to Computing in Engineering and Science</td>
<td>3</td>
</tr>
<tr>
<td>ENG 101</td>
<td>English and Composition I</td>
<td>3</td>
</tr>
<tr>
<td>TURK 101</td>
<td>Turkish I</td>
<td>2</td>
</tr>
</tbody>
</table>

Spring Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 102</td>
<td>General Physics II</td>
<td>4</td>
</tr>
<tr>
<td>MATH 102*</td>
<td>Calculus II</td>
<td>4</td>
</tr>
</tbody>
</table>
CS 112  Introduction to Object-Oriented Programming ........................................... 4
ENG 102  English and Composition II ................................................................. 3
TURK 102  Turkish II ......................................................... 2

* 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 115 sequence or MATH 113 - MATH 114 sequence in place of MATH 101 - MATH 102.

SECOND YEAR

Autumn Semester
IE 261  Computer-Aided Manufacturing .......................................................... 2
IE 271  Operations Analysis and Design ......................................................... 3
MATH 225  Linear Algebra and Differential Equations ......................................... 4
MATH 250  Introduction to Probability .............................................................. 3
CS 281  Computers and Data Organization ....................................................... 3
HIST 201  History of Turkish Republic I .......................................................... 2

Spring Semester
IE 202  Introduction to Modeling and Optimization ......................................... 3
IE 262  Manufacturing Processes ................................................................. 4
MATH 260  Introduction to Statistics ............................................................... 3
HIST 202  History of Turkish Republic II ....................................................... 2
Math and Science Elective ................................................................. 3
Engineering Elective ................................................................. 3

THIRD YEAR

Autumn Semester
IE 299  Summer Training I ........................................................................ 3
IE 303  Modeling and Methods in Optimization ............................................... 3
IE 325  Stochastic Models ........................................................................ 3
IE 342  Engineering Economic Analysis ......................................................... 3
IE 375  Production Planning ........................................................................ 3
GE 301  Science Technology and Society ....................................................... 2
HUM 111  Cultures Civilizations and Ideas I ................................................... 3

Spring Semester
IE 324  Simulation ......................................................................................... 3
IE 376  Production Information Systems ......................................................... 3
IE 380  Quality Assurance and Reliability ....................................................... 3
HUM 112  Cultures Civilizations and Ideas II ................................................... 3
ENG 400  Technical and Professional Composition ........................................ 3

FOURTH YEAR

Autumn Semester
IE 399  Summer Training II ........................................................................ 3
IE 477  Production Systems Design-Synthesis ................................................. 3
IE Restricted Elective (2) ........................................................................ 6
Humanities and Social Sciences Elective ....................................................... 3
Man/Econ Elective ....................................................................................... 3

Spring Semester
IE 478  Production Systems Design-Practice .................................................. 3
IE 496  Seminar in Production Systems ................................................................
IE Restricted Elective ........................................................................ 3
Humanities and Social Sciences Elective ....................................................... 3
Man/Econ Elective ....................................................................................... 3
Technical Elective ....................................................................................... 3
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 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), statistics (estimation in stochastic systems, nonparametric analysis, Bayesian methods, analysis of censored and truncated data), manufacturing systems (hierarchical planning of large scale manufacturing systems, advanced manufacturing technologies, flexible manufacturing systems, cellular manufacturing systems, machine scheduling, production planning and control systems, manufacturing control strategies in FMS, analytical models for global manufacturing strategies, performance evaluation of manufacturing systems, modeling and analysis of production systems, investment decision models, simulation, neural networks).

Master of Science
Admission: All applicants are required to have a B.S. degree in Industrial Engineering or a related field of science and engineering. All 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. 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 Industrial Engineering or a related field of science and engineering. All 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. 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

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, Prerequisite: MATH 225. Spr (O. Ekin-Karaslan, H. Yaman)

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. 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, 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. Aut (M. Akgul, 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, Prerequisite: IE 271 and IE 262. Aut (U. Gurler) Spr (U. Gurler)

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, Prerequisite: IE 202. Aut (M. C. Pinar, B. Yetis)

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, Prerequisite: CS 112, Corequisite: MATH 260. Spr (K. Gokbayrak)

IE 325  Stochastic Models

IE 342  Engineering Economic Analysis
Analysis of engineering decisions; principles and methodology of comparing decision alternatives, such as various engineering designs, manufacturing equipment, or industrial projects. Dealing with uncertainty and risk; rational decision making when future outcomes are uncertain. Concepts of time value of money. Effects of depreciation, inflation, and taxation on economic decisions. Cost-benefit analysis of public projects. Replacement analysis. Introduction to financial engineering. Credit units: 3. Spr (M. Akgul)

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, Prerequisite: IE 202. Aut (O. Ozuz, A. Shen)

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, Prerequisite: CS 281 and IE 375. Aut (M. S. Aktürk)

IE 380  Quality Assurance and Reliability
Concepts and statistical methods employed in the assurance of product conformance to specification limits. Emphasis is placed on statistical process control, total quality management, acceptance sampling, process design and reliability. Credit units: 3, Prerequisite: MATH 260. Spr (O. Alp, M. M. Fadıloğlu, M. R. Taner)

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, Prerequisite: IE 299. Aut (Ü. Güler) Spr (Ü. Güler)

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. Aut (H. Yaman)

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.

IE 421  Introduction to Stochastic Processes

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. Prerequisite: IE 321.

IE 441  Cost Analysis and Control

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 continuing professional development and technical collaboration. Credit units: 3, Prerequisite: IE 324 and 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, Prerequisite: IE 477. Spr (İ. Sabuncuğlu, 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, Prerequisite: Consent of the Department. Aut (O. Ekin-Karasän)
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. Spr (O. Ekin-Karasan)

IE 496 Seminar in Production Systems
A series of seminars on issues of current interest to the practice of industrial engineering. Credit units: None. Prerequisite: Senior standing in IE. Spr (I. Sabuncuoglu, B. Yetis)

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.

IE 510 Theory of Computing

IE 512 Graph Theory

IE 513 Linear Programming

IE 514 Networks Flows

IE 521 Stochastic Processes

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. Aut (Sabuncuolu)

IE 525 Advanced Statistics

IE 526 Applications of Simulations
This interactive course covers applications of simulation in four areas, manufacturing/material handling, the automotive industry, logistics and transportation systems, and service systems. The course also discusses management of the simulation project. Examples are given from consulting practice. Basic instruction is provided in the AutoMod language so that conveyors and AGVs can be simulated by the participants. Students are required to carry out real-life projects in teams. Credit units: 3.

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.

IE 528 Dynamic Programming

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.

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.

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.

IE 573 Theory of Machine Scheduling
An overview of computational complexity, heuristic problem solving, and implicit enumeration. Deterministic machine scheduling problems: single stage, open shop, flow shop, and job shop problems with single and

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. Spr (B. Tansel)

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. Aut (B. Tansel)

IE 578 Location Models

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 research interests and discuss the current status and future research areas in that field. Credit units: None. Aut (A. Şen) Spr (A. Şen)

IE 599 Master’s Thesis
Credit units: None. 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.

IE 699 Ph.D. Dissertation
Credit units: None. 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**

İlkınur Aka, Instructor
B.A., German Language and Literature, Hacettepe University, 1982.

Varol Akman, Professor
Artificial intelligence, logic, philosophy of language, pragmatics, the Internet and society.

Gönül Alikaya, Instructor
M.A., German Language and Literature, Ankara University, 1975.

Yasemin Alptekin-Oğuzertem, Instructor

İsmail Aşıkoglu, 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
Thomas Martin Besch, Instructor
M.A., Philosophy, University of Hamburg, 1996. Practical reasoning, moral and political philosophy, Rawls, Hare, Kant.

Arzu Bezgin, Instructor

Geoffrey Scott Bowe, Visiting Assistant Professor
Ph.D., Philosophy, McMaster University, 1998. Greek philosophy, history of philosophy, political philosophy, ethics, value theory.

Bülent R. Bozkurt, Professor
Ph.D., English Literature, Hacettepe University, 1972. Shakespeare, Renaissance poetry, literary terms, translation.

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.

M. Hamit Çalışkan, Assistant Professor

Gülay Cayan, Instructor
B.A., German Language Teaching, Hacettepe University, 1992.

E. Lale Demirtürk, Associate Professor

Alca Dokuzoğlu, Instructor
M.A., Graduate School of Education, Bilkent University, 2002.

Marianella Gutierrez Erdem, Instructor
B.A., Spanish Language Teaching, Corazon de Maria University, 1970.

Nilüfer Erkan, Instructor
B.A., German Language and Literature, Ankara University, 1969.

Yaşar Ersoy, Instructor

Fatima Festic, Visiting Assistant Professor

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.

Matthew Gumpert, Assistant Professor
Ph.D., Comparative Literature, Harvard University, 1992. Classics, critical theory, cultural studies, French, interdisciplinary studies.

Sevil Güner, Instructor

Talat S. Halman, Visiting Professor

Trevor Hope, Assistant Professor (on leave)
Ph.D., Comparative Literature, Cornell University, 1995. Literary and critical theory, psychoanalysis, gender and sexuality, nineteenth century French, British and German Literature.

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.

Engin Karacaören, Instructor
Ph.D., Spanish Language and Literature, Ankara University, 2002.

Birtane Karanakçı, Instructor

Burcu Karapıçak, Instructor
M.A., Graduate School of Education, Bilkent University, 2002.

Rüçhan Kayalar, Instructor

Valerie Kennedy, Assistant Professor

Leonard H. Knight, Instructor
Ph.D., English Literature, University of Wales, 1961. Shakespeare, Elizabethan and Jacobean literature, modern drama.

Wlodzimierz Korab-Karpowicz, Assistant Professor

Ezel Kural-Shaw, Visiting Professor

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.

Anthony Lake, Instructor
Ph.D., English Literature, University of Sussex, 1996. Victorian literature, travel writing, romanticism, literature and naturalism, literary theory.
Laurent Mignon, Visiting 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 Oğuzer, Assistant Professor
Ph.D., Comparative Literature, Indiana University, 1994. Modern Turkish literature, comparative literature, literary theory, criticism.

Saeke 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 Özkoğlu, 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.

Scott Pound, Assistant Professor
Ph.D., Comparative Literature and Poetics, State University of New York at Buffalo, 2001. 20th century American literature and culture, poetics, critical and cultural theory.

Donald Bruce Randall, Associate Professor

Andrea Rehberg, Assistant Professor

Philippe Rosenberg, Visiting Assistant Professor

Özlem Sacaşık, Instructor
Catherine M. Sampsell, Assistant Professor

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 Soyıtêtir Şentürk, Instructor
Ph.D., German Language and Literature, Hacettepe University, 1999.

Engin Soyupak, Instructor
B.A., French Language Teaching, Gazi University, 1976.

Muammer Şanlı, Instructor

Sema Taşkin, Instructor
Ph.D., English Literature, Hacettepe University, 1999. 20th century poetry, romantic poetry, victorian literature.

Aysê Tek, Instructor

Orhan Tekelioglu, Assistant Professor
Ph.D., Sociology, Middle East Technical University, 1993. Social and political theory.

Jennifer Terni, Visiting Assistant Professor
Ph.D., Romance Studies, Duke University, 2002. Modern French literature, cultural studies, cultural history.

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

Thomas Winter, Assistant Professor
William Wringle, Assistant Professor

Hilmi Yavuz, Adjunct Senior Lecturer

Vedat Yazıcı, Instructor

Thomas Zimmermann, Instructor

PART-TIME ACADEMIC STAFF

Metin And, Ph.D., Theater, University of Ankara, 1968. Turkish theater, history and criticism.

Esat Arslan, Ph.D., History of Turkish Republic, Ankara University, 1989.

Mehmet Aydın, B.A., Turkish Language and Literature, Istanbul University, 1948.

Mukaddes Aydın, B.A., German Language and Literature, Hacettepe University, 1998.

Nurgüzel Cumalıoğlu, B.A., Turkish Language and Literature, Istanbul University, 1963.

Zeki Çelikkol, M.A., Retired Ambassador.

Adil Dağıstan, Ph.D., History of Turkish Republic, Hacettepe University, 1992.

Aykut Dündar, B.A., Turkish Language and Literature, Ankara University, 1959.


Temuçin Faik Ertan, Ph.D., History of Turkish Republic, Hacettepe University, 1993.

Serife Genceliyeva Tamer, Ph.D., History, Tbilisi State University, 1987.

Gün Gür, B.A., Retired Ambassador.

Ayla Hafız, B.A., German Language and Literature, Metodij University, 1994.


Evangelia Ioannidou-Pişkin, Ph.D., Archeology, Leicester University, 1999.

Oktay İkinci, B.A., Turkish Language and Literature, Gazi University, 1988.

Ahmet Kaya, B.A., Turkish Language and Literature, Ankara University, 1985.

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, Istanbul University, 1977.


Öcal Oğuz, Ph.D., Gazi University, 1991. Turkish folk literature.

Özer Ozankaya, Ph.D., Sociology, Ankara University, 1966.


Erdoğan Sanal, M.A., Retired Ambassador.

Ayten Sezer, Ph.D., History of Turkish Republic, Hacettepe University, 1993.

Adnan Sofuoğlu, Ph.D., History of Turkish Republic, Hacettepe University, 1993.

Ayhan Sendöl, B.A., Turkish Language and Literature, Ankara University, 1966.


Erdinç Tokgöz, Ph.D., Economics, Paris University, 1967.

Neriman Tongül, Ph.D., History of Turkish Republic, Hacettepe University, 1993.


Mustafa Yılmaz, Ph.D., History of Turkish Republic, Hacettepe University, 1991.

Aysın Yoltar-Yıldırım, Ph.D., Islamic Art, New York University, 2003
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. 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.

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.

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 yearlong course “Cultures, Civilizations, and Ideas” explores the formation and transformation of communities across a broad range of geographical and chronological contexts. It examines how differences between communities are narrated through modes of collection, translation, discovery, travel. The goal is to examine paradigms of reading within which the ideas of culture and civilization emerged and changed. Classroom work, reading, and written assignments will develop skills in close reading and argumentation. Authors studied include Braudel, Williams, Freud, Clark, Homer, Montesquieu, Said, Plato, Confucius, Polo, Columbus, Rowlandson, and Locke. The course is organized into a series of clusters which relate themes, cultures and geography. Throughout the semester, students will meet in the evenings for special events such as lectures, presentations and videos. Credit units: 3. Prerequisite: ENG 102. Aut (L. Barry, G. S. Bowe, D. Chesney, C. Costantini, F. Festic, M. Gumpert, M. Nakeeb, A. Rehberg, P. Rosenberg, J. Terni)

HUM 112 Cultures Civilizations and Ideas II
This half of the yearlong course examines modern formations of knowledge. It considers the questions of modernity and knowledge through works of philosophy, literature, and visual art. Examples are drawn from a variety of geographical and ideological contexts. Topics to be discussed include scientific method, theories of origins, commodity fetishism, urban life, and ethnography. Classroom work, reading, and written assignments will develop skills in close reading and argumentation. Authors studied include Descartes, Kant, Machiavelli, Cixous, Baudelaire, Marx, Smith, Barthes, Hegel, Breton, Woolf, and Achebe. The course is organized into a series of clusters which relate themes, cultures and geography. Throughout the semester students will meet in the evenings for special events such as lectures, presentations and videos. Credit units: 3. Prerequisite: HUM 111.
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.

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. Aut (İ. Aşıkçıoğlu, M. Aydın, B. Cordan, N. Cumalıoğlu, A. Dokuzoğlu, A. T. Görgü, S. Gözcü Ezen, O. İkinci, B. Karapıçak, A. Kaya, Y. Kaynak, L. Müftüoğlu, S. Öz, A. Özer, R. Özyürek, A. Serdar, E. Sezer, A. Şendöl, R. Tutumlu, V. Yazıcı) Spr (İ. Aşıkçıoğlu, M. Aydın, N. Cumalıoğlu, A. Dündar, O. İkinci, A. Kaya)

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, Prerequisite: TURK 101. Aut (İ. Aşıkçıoğlu, M. Aydın, N. Cumalıoğlu, A. Dündar, O. İkinci, A. Kaya) Spr (İ. Aşıkçıoğlu, M. Aydın, B. Cordan, N. Cumalıoğlu, A. Dokuzoğlu, A. T. Görgü, S. Gözcü Ezen, O. İkinci, B. Karapıçak, A. Kaya, Y. Kaynak, L. Müftüoğlu, S. Öz, A. Özer, R. Özyürek, A. Serdar, E. Sezer, A. Şendöl, R. Tutumlu, 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. Aut (V. Yazıcı) Spr (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. Aut (V. Yazıcı) Spr (V. Yazıcı)

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. Aut (N. Mumcu-Öz) Spr (N. Mumcu-Öz)

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. Spr (Staff)

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.
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 Arsız Ölüm (Latife Tekin), Cevdet Bey ve Çıtları (Orhan Pamuk), Venedikte Ölüm (Thomas Mann), and Gece (Bilge Karasu). Credit units: 3.

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. 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. 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. 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, Divâni scripts. Credit units: 3. 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.

TURK 403  Turkish Grammar I

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.

HISTORY OF TURKISH REPUBLIC UNIT

E. Arslan (Head).


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. Aut (E. Arslan, Z. Çelikkol, A. Dağistan, T. F. Ertan, G. Gür, Y. Kaya, C. Ö zgül, E. Sanalan, A. Sezer, A. Sofuoğlu, E. Tokgöz, N. Tongul, M. Yılmaz) Spr (G. Gür)

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. Prerequisite: HIST 201. Aut (A. Dağistan, T. F. Ertan, G. Gür, A. Sezer, A. Sofuoğlu) Spr (E. Arslan, Z. Çelikkol, G. Gür, Y. Kaya, C. Özgül, E. Sanalan, E. Tokgöz, N. Tongul)
FOREIGN LANGUAGES UNIT

E. Soyupak (Coordinator)


Italian: A. Bezgin, Ö. Özdur, Ö. Saçak, A. Tek.

Japanese: S. Ohashi.


Russian: S. Genceliyeva Tamer, N. Hüseyin, G. Tannkulu.

Other Foreign Languages: A. Simin, S. Wulie.

FOREIGN LANGUAGE COURSES

The Foreign Languages Unit offers basic- and intermediate-level courses in German, French, Italian, Japanese, Russian, Spanish, Chinese and Arabic. Advanced level courses as well as special-purpose courses emphasizing language skills in various professions are also offered.

BASIC LEVEL COURSES

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<td>ITA 111/112/113/114</td>
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<td>SPA 111/112/113/114</td>
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<td>RUS 111/112/113/114</td>
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INTERMEDIATE LEVEL COURSES

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<td>SPA 211/212/213/214</td>
<td>Intermediate Spanish I / II / III / IV</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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<td>Communication Skills in French I / II</td>
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<tr>
<td>GER 381/382</td>
<td>Communication Skills in German I / II</td>
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LANGUAGE 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 165/166/167  Basic Chinese I / II
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


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

Autumn Semester
AMER 115 Methods and Texts I ................................................................. 3
AMER 195 Introduction to American Studies I ......................................... 4
GE 100 Orientation ................................................................................. 1
CS 121 Introduction to Computing for Social Sciences .......................... 3
ENG 101 English and Composition I ..................................................... 3
ENG 117 Advanced English Grammar I ................................................ 3
TURK 101 Turkish I ............................................................................... 2

Spring Semester
AMER 116 Methods and Texts II ............................................................. 3
AMER 196 Introduction to American Studies II ....................................... 4
ENG 102 English and Composition II ................................................... 3
ENG 118 Advanced English Grammar II ............................................... 3
TURK 102 Turkish II ............................................................................. 2

SECOND YEAR

Autumn Semester
AMER 207 American Texts and Contexts I ............................................. 4
AMER 291 Survey of American Literature I ........................................... 3
AMER 293 American History I ............................................................. 3
MATH 103 Introductory Mathematics ................................................... 3
SOC 101 Introduction to Sociology ........................................................ 3
HIST 201 History of Turkish Republic I ............................................... 2

Spring Semester
AMER 208 American Texts and Contexts II .......................................... 4
AMER 292 Survey of American Literature II .......................................... 3
AMER 294 American History II ........................................................... 3
PHYS 200 Physics for Poets .................................................................... 3
POLS 104 Introduction to Political Science II ........................................ 3
HIST 202 History of Turkish Republic II ............................................... 2
### THIRD YEAR

#### Autumn Semester
- AMER 301 American Social Texts to 1900 ........................................ 3
- AMER 343 American Theater .......................................................... 3
- AMER 383 American Novel to 1900 ............................................. 3
- AMER 393 Intellectuals and Public Culture ................................... 3
- Elective ......................................................................................... 3

#### Spring Semester
- AMER 302 American Social Texts From 1900 ............................... 3
- AMER 374 American Poetry ......................................................... 3
- AMER 384 American Novel From 1900 ....................................... 3
- AMER 396 Social and Cultural Movements .................................. 3
- Elective ......................................................................................... 3

### FOURTH YEAR

#### Autumn Semester
- AMER 427 Topics in Theory for American Culture .......................... 3
- AMER 459 Race and Ethnicity in American Culture ...................... 3
- Restricted Electives ................................................................. 6
- Elective ......................................................................................... 3

#### Spring Semester
- AMER 426 American Studies in a Global Context ......................... 3
- AMER 492 Gender Studies in American Culture .......................... 3
- Restricted Electives ................................................................. 6
- Elective ......................................................................................... 3

### RESTRICTED ELECTIVES
- AMER 242 Modern American Drama II ....................................... 3
- AMER 312 Letters, Travels, Autobiography .................................. 3
- AMER 324 African American Novel of the Color-Line .................. 3
- AMER 401 The Literary Text and Its Cinematic "Double" ............. 3
- AMER 402 The Contemporary Travel Narrative: Pushing the Limits of Genre and Representation ............................................. 3
- AMER 403 The Dismantled "Belle" in Twentieth-Century Southern Literature ......................................................... 3
- AMER 404 The 1950s ................................................................. 3
- AMER 405 Reading Jazz ............................................................... 3
- AMER 406 Early American Fiction ............................................... 3
- AMER 407 The Civil War and American Popular Culture ............ 3
- AMER 408 Success and Its Discontents ........................................ 3
- AMER 409 The Great Migration Novel ......................................... 3
- AMER 410 The Vietnam War, American Culture and the Politics of Memory .......................................................... 3
- AMER 411 Transcendentalism ...................................................... 3
- AMER 412 Immigrant Women's Autobiography ......................... 3
- AMER 414 The Puritans: Reality and Fiction .................................. 3
- AMER 415 Langston Hughes and Gertrude Stein ......................... 3
- AMER 416 The Fiction of Eudora Welty ...................................... 3
- AMER 417 Coming of Age in America ......................................... 3
- AMER 418 Contemporary American Short Story ......................... 3
- AMER 419 Modern Latino Short Fiction ..................................... 3
- AMER 420 Readings in Southern Literature .................................. 3
- AMER 422 Zora Neale Hurston: Voice From the Margins ............ 3
- AMER 428 Novels of Toni Morrison ........................................... 3
- AMER 429 Orientalism and American Culture 1860-1925 ............ 3
- AMER 430 The Thirties: The Great Depression and the New Deal ... 3
- AMER 431 American Film Noir .................................................... 3
- AMER 432 Photography in American History .................................. 3
- AMER 433 The City in American Culture ..................................... 3
AMER 434 Cold War Culture and Modernization ........................................ 3
AMER 435 The Emergence of Modern America 1877-1920 .......................... 3
AMER 436 Media Communications Culture .............................................. 3
AMER 437 American Film in Context ....................................................... 3
AMER 440 American Society and Globalization ....................................... 3
AMER 442 America and The Skyscraper: an Architectural History ............... 3
AMER 444 Teaching American Studies in Cross-Cultural Contexts ................. 3
AMER 451 Ethnic Literature ................................................................. 3
AMER 460 Contemporary Native American Writers ................................. 3
AMER 466 Contemporary African-American Women Writers ....................... 3

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 history of the United States. Students will also learn how to develop a bibliography and how to cite sources using established styles. Credit units: 3. Aut (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. Prerequisite: AMER 115 or AMER 117.

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: 4. Aut (Y. Alptekin-Öğuzterem)

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: 4. Prerequisite: AMER 195.

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. Prerequisite: AMER 118 and AMER 196. Aut (M. Şanlı)

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. Prerequisite: AMER 207.

AMER 242 Modern American Drama II
A study of selected plays and dramatists of the 60s, 70s, and 80s with emphasis on Hansberry, Shephard, Hanley, Wilson. Credit units: 3.

AMER 291 Survey of American Literature I
This course presents a chronological study of American literature from its beginnings to the end of the Civil War, with particular attention to writings by the Puritans and other early settlers, revolutionary and early national
rhetoric and literature, Transcendentalism, and writings on slavery. The question of the very possibility of a national literature pervades the course; written sources will be compared with oral forms from Native American and African-American cultural contexts. **Credit units:** 3, **Prerequisite:** AMER 118 and AMER 196. **Aut (Y. Alptekin-Oğuzertem)**

**AMER 292 Survey of American Literature II**
This course presents a chronological study of American literature from the Reconstruction era to the present. Particular attention will be given to the realist and naturalist movements, American contributions to modernism, ethnic and immigrant writings, and postmodernism. **Credit units:** 3, **Prerequisite:** AMER 118 and AMER 196.

**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, **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, **Prerequisite:** AMER 118 and AMER 196.

**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:** 3. **Aut (C. M. Sampsel)**

**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:** 3.

**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.

**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.

**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. **Aut (S. Pound)**

**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.

**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. **Aut (E. L. Demirtürk)**

**AMER 384 American Novel From 1900**
A study of novels covering the period from 1900 to the present. Selections can include works by E. Hemingway, F.S. Fitzgerald, W. Faulkner, J. Steinbeck, W. Cather, T.Dreiser, J. Smiley, and “popular” novels, novels by women, African-American, Native American, and ethnic writers. **Credit units:** 3.

**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 Tocqueville, 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. Aut (D. Bryson)

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.

AMER 401 The Literary Text and Its Cinematic "Double"
This course focuses on literary and cinematic modes of representation that reflect and inform contemporary cultural myths. At stake in the course are questions of history, formal experimentation, cultural memory, ideology, and genre, from the early twentieth century to the present. Primary literary and filmic texts include work by: K.A. Porter, J. Rhys, J. Cortazar, M. Antonioni, L. Visconti, T. Mann, T. Fontane, R. Fassbinder and H. Selby Jr. Credit units: 3.

AMER 402 The Contemporary Travel Narrative: Pushing the Limits of Genre and Representation
This fourth year seminar explores an eclectic spectrum of narratives, loosely defined by their relationship to travel, across a broad range of linguistic, cultural, generic, and historical contexts. The course analyzes the ways in which narrative representation has been, and continues to be, manipulated to reflect ideological and aesthetic concerns. It includes theoretical writing, fiction and non-fiction, highlighting the multi-generic nature of the contemporary travel narrative. Texts studied include: Georg Lukacs's Theory of the Novel, Henry James's The Ambassadors, Bruce Chatwin's What Am I Doing Here, Louis-Ferdinand Celine's Rigadoon, Georges Bataille's Blue of Noon, and Susan Orlean's The Orchid Thief. Credit units: 3.

AMER 403 The Dismantled "Belle" in Twentieth-Century Southern Literature
This seminar will discuss the "contradiction" between the 19th century ideal of the Southern belle and her counterpart in the 20th century, a more "fallen" deviate. Since the southern belle has traditionally been the symbol of the South itself, Southern women writers who grapple with the "belle" mythology offer important critiques of gender, race and class relationships in the South. In this course, students will consider the following broad questions: How do attitudes toward women in the South illuminate the South as a particular region of America? Why have Southern women writers been such a dominant voice in American literature of the twentieth century? Why do Southern women writers continue to react so strongly to the Southern belle mythology even in a post-feminist era? Credit units: 3.

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.

AMER 405 Reading Jazz
This course explores how and why writers have engaged the distinctive contributions of jazz in the twentieth century: for characters, settings, and themes; for poetic forms, rhythms, and language; and for its improvisational, down-and-dirty approach to art and life among other people. Writers include Michael ONdaatje, Toni Morrison, Langston Hughes, Cab Calloway, Sampson Raphaelson, and Euroda Welty. Credit units: 3.

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.

AMER 407 The Civil War and American Popular Culture
This course examines the U.S. Civil War from an interdisciplinary perspective, asking how various forms of cultural expression worked to motivate, ameliorate, or otherwise "handle" the conflict. Among the topics discussed will be abolitionist rhetoric and the slave's narrative, narrative, gender and sentiment, the lyric, diaristic transcription, letters, oratory, and post-war recollections of the conflict and its aftermath. Writers and artists studied include Louisa May Alcott, Harriet Beecher Stowe, Walt Whitman, Sarah Morgan, Abraham Lincoln, Stephen Crane, Ambrose Bierce, Mathew Brady, and various anonymous sources. Readings will be supplemented by an historical account by Bruce Catton. Credit units: 3.
AMER 408  Success and Its Discontents
This course examines the late 19th century stories of success that were popular with elite reformers, working-class dreamers, and hopeful immigrants. In form and content, these stories raise questions about whether education and adherence to genteel norms offer social empowerment, social empowerment only for the lucky, loss, or betrayal of one's community. The readings will include literature by Horatio Alger, William Dean Howells, Abraham Cahan, Charles Chesnutt, and Elizabeth Stuart Phelps and secondary reading. The course will culminate in a major research project. Credit units: 3.

AMER 409  The Great Migration Novel
The course gives background readings from Internet sources and from critical books (copies of chapters), and from journals (copies of articles), including the introduction to Black Metropolis by R. Wright. Books covered are: Paul Laurence Dunbar, The Sport of the Gods, Richard Wright, Black Boy (American Hunger), Ann Petry, The Street, Paule Marshall, Brown Girl, Brownstones. Credit units: 3.

AMER 410  The Vietnam War, American Culture and the Politics of Memory
The course provides students an opportunity to explore the connections and intersections between foreign relations and military policy on the one hand, and cultural formation and processes of historical memorization on the other. How does a culture process, critique, or comment on an undeclared war, involving that country for nearly three decades over time? It covers the diplomatic and military history of the Cold War and its most critical episode, the war in Vietnam, and explores connections between the events abroad and cultural developments within the U.S. It examines how and to what extent, and with what consequences, do the events surrounding the Vietnam War continue to influence American culture to this day. The course explores the political implications of the cultural memorization of a critical episode in American 20th century history, using as examples music, autobiography, novels, comic books, and debates over soldiers allegedly still missing in Southeast Asia. Credit units: 3.

AMER 411  Transcendentalism
This course examines the 19th century American Transcendentalist movement and its lasting influence on American society. Readings will introduce students to the ideas and feelings of Emerson, Thoreau, Poe, Fuller, Hawthorne and other thinkers who saw America differently than did Benjamin Franklin, the prototypical American. The course concludes with a consideration of how the influence of the Transcendentalists found its way into the counter-culture of the 1960s. Credit units: 3.

AMER 412  Langston Hughes and Gertrude Stein
Hughes and Stein are two major American modernists rarely considered together. Indeed, they seem to belong to two very different kinds of modernism: Hughes, to the Harlem Renaissance's assertion of a New Negro identity for African Americans; Stein to the European tradition of formal experimentation. Yet their work intersects in ways crucial to understanding how writers came to terms with the social, economic, and artistic shifts of the early 20th century. This course will explore how both writers worked in the varied forms of poetry, fiction, essay, theater, and autobiography. We'll consider how both experimented with African American voice and artistic simplicity. And we'll look at how their lives intersected as Americans in Paris and as the editorial projects of Carl Van Vechten (whose novel, Nigger Heaven, we'll also read). Credit units: 3.

AMER 413  American Women's Autobiography
American immigrant women's autobiographies reveal an idiosyncratic thematic structure, the record of a distinctive mental odyssey out of which women have sought to become a whole person with a bi-cultural identity. The conflicting voices of a female and an immigrant blend and argue as the writers' experiences as immigrant women are incorporated into narratives which assert, accept and celebrate gender a freer life in the new homeland. These struggles between different value-systems of different cultures become the common pattern of these women's lives and writings. Credit units: 3.

AMER 414  The Puritans: Reality and Fiction
This course approaches the American Puritans via the English allegory Pilgrim's Progress in order to appreciate the strength and vigor of the Puritan moral ideal. It then studies some 17th century New England texts to understand the Puritans through their own words. Finally, students will read some fiction about the Puritans to gauge how the Reality has passed into Story. Credit units: 3.

AMER 415  The Fiction of Eudora Welty
Eudora Welty, a Pulitzer-prize winning winner author from Mississippi, is considered one of America's greatest writers of the 20th century. Her literary achievement is often compared to that of another famous Mississippian, William Faulkner. In an attempt to objectively evaluate her work, this course will study the majority of her literary canon, concentrating on some of her lesser known, but critically acclaimed, short stories and novels. Further, the course will consider whether or not Welty's work written during the Civil Rights movement was sufficiently critical of Southern cultural mores of the 1960s and 1970s, and will focus on her depiction of Southern gender dynamics and class struggles. Credit units: 3.
AMER 417 Coming of Age in America
The search for identity and the development of a sense of self mark the works to be read in this course. Societal expectations of culture, race, gender, religion, and the demands of changing environments served to complicate the lives of many Americans coming of age in the 20th century. In this course, we will hear the voices of American men and women who came to maturity during the century of growing multicultural awareness. Students will write papers dealing with the literature in the course, with their own experiences in ‘coming-of-age’ experiences of one or more older family members. We will then compare cross-cultural links and differences in the cultural conceptions of identity, self and maturity. Authors to be studied include Henry Louis Gates, Jr., Kaye Gibbons, Patricia Riley, and Tobias Wolff. Credit units: 3.

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.

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.

AMER 420 Readings in Southern Literature
Major critical approaches from Aristotle's 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.

AMER 422 Zora Neale Hurston: Voice From the Margins
In this tropical elective course, we will discuss the fiction of Zora Neale Hurston, looking closely at her unique place in the canon of American Literature, African-American Literature, American folklore, and American feminism. We will raise questions regarding why Hurston was overlooked for many years by the literary establishment and why she continues to defy easy assimilation even when her novel The Eyes Were Watching God is now a standard text in most curricula of American universities. Credit units: 3.

AMER 426 American Studies in a Global Context
Following the critical examination of American nationality in AMER 425, this course will attempt to understand the notion of America in a global context. Our examination will begin with an attempt to understand the global construction of the United States, with specific reference to European colonialism, the transatlantic slave trade, and the rise of the nation-state. Then, we will examine contemporary theories of the globalization of American culture; we will map the flows of American cultural products and ideas into such locations as West Africa, South Asia, and Turkey itself. Credit units: 3.

AMER 427 Topics in Theory for American Culture
This course offers an introduction to critical and cultural theory with specific reference to problems in American Studies. Students will be encouraged to think critically about issues concerning narrative form, knowledge and power, culture, “common sense,” gender, race, and hegemony within the context of American culture and history. Selections from Barthes, Benjamin, Lyotard, Foucault, Gramsci, Bederman, Wiegman, Haraway, Jackson Lears, Denning, and others will be read for the course. Credit units: 3. Aut (Balkır)

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 how history and memory play a pivotal role in the survival of her black women characters, whose lives are determined by racist, classist, and sexist boundaries. The course will further explore the role of community and cultural heritage for women characters, especially, to cross “places” and to define 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.

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. Aut (Balkır)

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.**

**AMER 431 American Film Noir**
Between 1941 and 1958, Hollywood developed the most distinctive and influential film style in American history, **film noir**. Named both for their extensive use of shadows and their dark outlook on American society (“noir” is French for “dark” or “black”), noir films presented a vision of doomed anti-heroes, sinister conspiracies, and deadly sexuality, all located in a society more thoroughly corrupt than any ever portrayed in American film. This course examines the origins of **film noir**, its aesthetics, and especially its thematics, and emphasizes understanding **noirs** as cultural productions. Students will see a number of films, including well-known classic **noirs** (**The Maltese Falcon, Double Indemnity**, lesser-known “B-films” (**Gun Crazy, The Big Combo**), neo-noirs (**Chinatown, Body Heat**), and films from other genres that bear a heavy **noir** influence (**Bladerunner, Blue Velvet**). Students will also read at least one “hard-boiled” novel as well as many of the major critical texts on this film form. **Credit units: 3.**

**AMER 432 Photography in American History**
This course will examine the photography in the context of American history. Primary focus will be understanding the photograph as a historical document as well as the history of photography as an American form of artistic, political, and social expression. **Credit units: 3.**

**AMER 433 The City in American Culture**
This course will examine the impact of cities on the development of American culture from 1800 to the present. As the pre-eminent site of both economic and cultural capital, cities attract and channel vast quantities of artistic and economic resources into a panoply of cultural and social forms. The purpose of this course will be to develop a basic understanding of the city as a social and cultural force in American life. Material to be studied may include works by Thomas Jefferson, Alexis de Tocqueville, Walt Whitman, Edgar Allan Poe, Langston Hughes, Alfred Steiglitz, Georgia O’Keefe, Frank O’Hara, Gwendolyn Brooks, Paul Auster, and Jane Jacobs, among others. **Credit units: 3.**

**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 Americanization, Americanization 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.**

**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.**

**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.**

**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 Coppola, Woody Allen, Robert Altman, Stan Brakhage, John Waters, Jim Jarmusuch, David Lynch, John Samples, Spike Lee, the Coen Coen Brothers, Quentin Tarantino, Hal Hantley, Steven Soderberg, Spike Jonze, and Todd Solondz will be studied. **Credit units: 3. Aut (S. Pound)**

**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.

**AMER 442 America and The Skyscraper: an Architectural History**
This course offers a survey of this history of American architecture from the Great Fire of Chicago in 1871, which heralded the birth of the skyscraper, to the terrorist attack on the World Trade Center in 2001, which some predict as heralding the death of the skyscraper. The skyscraper, which is seen as uniquely American architectural product even though it now appears throughout the world, will serve as the main point of reference. However, opposite architectural points of view, like the City Beautiful Movement, the Garden City, the suburbanization of America and the recent “New Urbanist” movements will be covered as well. The works and contributions of the following architects and urban planners will receive special attention: Fredrick Law Olmstead, Lois Sullivan, Frank Lloyd Wright, Walter Gropius, Mies van der Rohe, Philip Johnson and Robert Venturi. Credit units: 3.

**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 precolligate level audience. Specific instructional practices in using technology and visuals are assigned as individual and group projects, and the students learn assessment and evaluation techniques along with general principles of teaching. At the end of coursework, there is peer review and self-evaluation that may be further used with diverse target groups in practice. Credit units: 3.

**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.

**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. Aut (C. M. Sampsell)

**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.

**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. McMillan, A. Walker and G. Naylor. Credit units: 3. Aut (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.
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.


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
HART 111 Introduction to Archaeology ......................................................... 3
HART 117 Ways of Seeing: Approaches to Art and Architectural History .......... 3
HART 123 Ancient Near Eastern and Egyptian Civilizations .......................... 3
HART 125 Archaeological Illustration ............................................................ 3
GE 100 Orientation ....................................................................................... 1
CS 121 Introduction to Computing for Social Sciences .................................. 3
ENG 101 English and Composition I ............................................................ 3
TURK 101 Turkish I ....................................................................................... 2

Spring Semester
HART 118 Survey of European Art and Architecture ..................................... 3
HART 120 Human Evolution and World Prehistory ..................................... 3
HART 124 Societies and Cultures of the Classical World ............................... 3
HART 126 Archaeological Planning or Planning and Drawing in the Field ........ 3
ENG 102 English and Composition II ........................................................... 3
TURK 102 Turkish II ..................................................................................... 2
SECOND YEAR

Autumn Semester
HART 219  Anatolian Archaeology, Neolithic to the Iron Age ........................... 3  
HART 221  Egyptian Art and Archaeology ....................................................... 3  
HART 223  Early Greek Art and Archaeology ................................................... 3  
HART 225  Cultural Anthropology ................................................................. 3  
HIST 201  History of Turkish Republic I ......................................................... 2  
Ancient Language Requirement* ............................................................... 3  

Spring Semester
HART 208  Roman Art and Archaeology ......................................................... 3  
HART 220  Anatolian Archaeology, Classical and Byzantine ............................. 3  
HART 222  Mesopotamian Archaeology ............................................................ 3  
HART 224  Classical Greek and Hellenistic Art and Archaeology ...................... 3  
HIST 202  History of Turkish Republic II ....................................................... 2  
Ancient Language Requirement* ............................................................... 3  

THIRD YEAR

Autumn Semester
HART 325  Hittite Archaeology ................................................................. 3  
HART 379  Byzantine Art and Archaeology ..................................................... 3  
Electives (2) .................................................................................................. 6  
Ancient Language Requirement* ............................................................... 3  

Spring Semester
HART 318  Archaeology of Syria and Palestine .............................................. 3  
Electives (3) .................................................................................................. 9  
Ancient Language Requirement* ............................................................... 3  

FOURTH YEAR

Autumn Semester
HART 407  Hellenistic and Early Roman Periods in Anatolia ......................... 3  
HART 409  Museum Practices and the Preservation of Cultural Heritage .......... 3  
Electives (3) .................................................................................................. 9  

Spring Semester
HART 436  Archaeological Method and Theory .............................................. 3  
Electives (4) .................................................................................................. 12  

ELECTIVES

HART 231  Ancient Greek I ............................................................................... 3  
HART 232  Ancient Greek II ........................................................................... 3  
HART 239  Latin I ............................................................................................ 3  
HART 240  Latin II ......................................................................................... 3  
HART 300  The Roman Empire Under Trajan .................................................. 4  
HART 303  Greek Sculpture ............................................................................ 3  
HART 306  Hellenistic and Roman Sculpture .................................................. 3  
HART 307  Monumental Painting .................................................................... 3  
HART 308  Greek Vase Painting ....................................................................... 3  
HART 310  Archaeological Surveying and Planning ........................................ 3  
HART 313  European Prehistory .................................................................... 3  
HART 314  Archaeology of Iran ....................................................................... 3  
HART 315  Greek Architecture ....................................................................... 3  
HART 316  Roman Architecture ...................................................................... 3  
HART 317  Archaeology of Troy ...................................................................... 3  
HART 319  Bronze Age in Iran ....................................................................... 3  
HART 322  Orientalizing Period ................................................................. 3  
HART 326  Near Eastern and Anatolian Glyptic .............................................. 3  
HART 328  The Aegean Bronze Age ............................................................... 3
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 periods, 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**

**Autumn Semester**

HART 501 Issues in Archaeological Theory ........................................... 3
HART 505 Cultural Ecology ................................................................. 3
HART 507 Pre-Classical Art and Archaeology ......................................... 3
HART 509 Classical Art and Archaeology ............................................. 3
HART 523 Medieval Art and Archaeology ............................................ 3
HART 551 Ancient Greek I ................................................................. 3
HART 553 Ancient Greek III .............................................................. 3
HART 563 Latin I ............................................................................. 3
HART 583 Latin III ......................................................................... 3

**Spring Semester**

HART 504 Interpretation of Art Historical Materials ............................. 3
HART 508 Issues in Pre-Classical Art and Archaeology ............................ 3
HART 510 Issues in Classical Art and Archaeology ................................ 3
HART 524 Issues in Medieval Art and Archaeology ................................ 3
HART 552 Ancient Greek II ............................................................... 3
HART 554 Ancient Greek IV ............................................................. 3
HART 564 Latin II ............................................................................ 3
HART 584 Latin IV ........................................................................... 3

**SECOND YEAR**

**Autumn Semester**

HART 599 Master's Thesis ..................................................................... -

**Spring Semester**

HART 599 Master's Thesis ..................................................................... -

**RESTRICTED ELECTIVES**

HART 507 Pre-Classical Art and Archaeology ....................................... 3
HART 508 Issues in Pre-Classical Art and Archaeology ............................. 3
HART 509 Classical Art and Archaeology ............................................. 3
HART 510 Issues in Classical Art and Archaeology ................................ 3
HART 523 Medieval Art and Archaeology ............................................ 3
HART 524 Issues in Medieval Art and Archaeology ................................ 3

**ELECTIVES**

HART 551 Ancient Greek I ................................................................. 3
HART 552 Ancient Greek II ................................................................. 3
HART 553 Ancient Greek III ................................................................. 3
HART 554 Ancient Greek IV ................................................................. 3
HART 563 Latin I ............................................................................. 3
HART 564 Latin II ........................................................................... 3
HART 583 Latin III ........................................................................... 3
HART 584 Latin IV ........................................................................... 3

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
calculating, surveying and recording techniques, dating methods, identification of sites and the topographical
factors involved in locating ancient settlements. Credit units: 3. 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. 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.

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.

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. 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.

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. Aut (B. C. Cookeon)

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.

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.

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. Aut (Özgen)

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.

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. 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.
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. Aut (Y. Ersoy)**

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.**

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. Aut (C. Gates)**

HART 231  Ancient Greek I
Introduction to ancient Greek for beginning students. The course will emphasize both grammar and reading. **Credit units: 3. Aut (J. Morin)**

HART 232  Ancient Greek II
Completion of the grammar and vocabulary acquisition started in Ancient Greek I. **Credit units: 3.**

HART 239  Latin I
Introduction to Latin for beginning students. The course will emphasize both grammar and reading. **Credit units: 3. Aut (Staff)**

HART 240  Latin II
Completion of the grammar and vocabulary acquisition begun in Latin I. **Credit units: 3.**

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, and 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 have also developed an awareness of historiographical methods and issues, and how archaeology substantially improves on the available documentary record. **Credit units: 4.**

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. 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.**

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.**

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.**

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.**

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. Aut (T. Zimmermann)**
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.

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.

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.

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. 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.

HART 319 Bronze Age in Iran
A detailed examination of the archaeology of Iran during the Bronze Age. Credit units: 3.

HART 320 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.

HART 321 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. Aut (Staff)

HART 322 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. Aut (M. Gates)

HART 323 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.

HART 324 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.

HART 325 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.

HART 326 Ancient Greek III
Selections from Greek literature (such as Homer, Hesiod, Xenophon Aeschylus, Sophocles, Euripides, Plato, Herodotus and Thucydides). Credit units: 3. Prerequisite: HART 231 and HART 232.

HART 327 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. Prerequisite: HART 333.
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.

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, 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, Prerequisite: HART 343.

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.

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.

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.

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.

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.

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. Aut (C. Gates)

HART 403  Greek Sanctuaries
This course examines the religious, political and social uses of one of the most important institutions of the Greek world, together with the architecture, sculpture, pottery and offerings found in sanctuaries. Credit units: 3. Aut (J. Morin)

HART 406  Science in Archaeology
This course surveys the contribution of the natural sciences to archaeological and art history research. Credit units: 3.

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. Aut (Y. Ersay)

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.

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. Aut (J. Bennett)

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 spirits 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.

HART 412  Museum Education
This course will investigate the role of museums as institutions with a pedagogical unison. 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).
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.

**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.

**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.

**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.

**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. Aut (İ. Özgen)

**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.

**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.

**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. Aut (Staff)

**HART 447 Neo-Assyrian Art and Archaeology**
The Neo-Assyrian Empire (10th-7th century BC) represents a high moment in the long history of Ancient Near Eastern civilizations. This course covers notable aspects of its architecture, arts and settlement systems as preserved in the archaeological record. Credit units: 3.

**HART 449 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.

**HART 450 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.

**HART 451 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.

**HART 452 Readings From Greek/Latin Texts**
This course will focus on selected readings from original sources. Credit units: 3. Aut (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. Aut (J. Morin)

**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.

**HART 504 Interpretation of Art Historical Materials**
A historical survey of different approaches to the analysis of art and architecture. Credit units: 3.
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.

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.

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. 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.

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. Aut (J. Bennett)

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.

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. 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.

HART 517 Readings in Anatolian Archaeology
Graduate tutorial in Anatolian Archaeology, on a topic to be chosen by the instructor. Credit units: 3. 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.

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. 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.

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.

HART 525 Ancient Greek I
Introduction to ancient Greek for graduate students. The course will emphasize both grammar and reading. Credit units: 3. Aut (J. Morin)

HART 526 Ancient Greek II
Completion of the grammar and vocabulary acquisition started in Ancient Greek I. Credit units: 3, Prerequisite: HART 551.

HART 553 Ancient Greek III
Selections from Greek literature, and an introduction to epigraphy. Credit units: 3, Prerequisite: HART 552. Aut (J. Morin)

HART 554 Ancient Greek IV
Selections from Greek literature, and an introduction to epigraphy. Credit units: 3, 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.

HART 564 Latin II
Continuation of the grammar and development of reading skills introduced in Latin I. Credit units: 3, Prerequisite: HART 563.
HART 583  Latin III
Selections from Latin literature and an introduction to epigraphy. Credit units: 3, Prerequisite: HART 564. Aut (Staff)

HART 584  Latin IV
Selections from Latin literature, prose composition, and an introduction to numismatics. Credit units: 3, Prerequisite: HART 583.

HART 599  Master's Thesis
Credit units: None. Aut (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

Autumn Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ELIT 109</td>
<td>Translation I (English-Turkish)</td>
<td>3</td>
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<tr>
<td>ELIT 137</td>
<td>English History I (to the Restoration)</td>
<td>3</td>
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<tr>
<td>ELIT 139</td>
<td>Appreciation of Literature</td>
<td>3</td>
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<tr>
<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>ENG 117</td>
<td>Advanced English Grammar I</td>
<td>3</td>
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<td>TURK 101</td>
<td>Turkish I</td>
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Spring Semester

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<tr>
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<tr>
<td>ELIT 112</td>
<td>Translation II (Turkish-English)</td>
<td>3</td>
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<tr>
<td>ELIT 130</td>
<td>Selections from English Literature (to the Restoration)</td>
<td>3</td>
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<tr>
<td>ELIT 138</td>
<td>English History II (to Present)</td>
<td>3</td>
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<tr>
<td>CS 121</td>
<td>Introduction to Computing for Social Sciences</td>
<td>3</td>
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<tr>
<td>ENG 102</td>
<td>English and Composition II</td>
<td>3</td>
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<tr>
<td>ENG 118</td>
<td>Advanced English Grammar II</td>
<td>3</td>
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<tr>
<td>TURK 102</td>
<td>Turkish II</td>
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SECOND YEAR

Autumn Semester

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<tbody>
<tr>
<td>ELIT 205</td>
<td>Oral Expression Discussion and Presentation I</td>
<td>3</td>
</tr>
<tr>
<td>ELIT 223</td>
<td>World Mythology</td>
<td>3</td>
</tr>
<tr>
<td>ELIT 261</td>
<td>The English Novel I (18th Century)</td>
<td>3</td>
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<tr>
<td>ELIT 281</td>
<td>The Short Story</td>
<td>3</td>
</tr>
<tr>
<td>ENG 201</td>
<td>Essay Writing</td>
<td>3</td>
</tr>
<tr>
<td>HIST 201</td>
<td>History of Turkish Republic I</td>
<td>2</td>
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<tr>
<td>Elective</td>
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</tbody>
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Spring Semester
ELIT 208 Critical Reading .................................................. 3
ELIT 242 Introduction to Drama ........................................... 3
ELIT 262 The English Novel II (19th Century) ......................... 3
ELIT 270 Poetry ................................................................. 3
ENG 214 Research Techniques for Humanities ......................... 3
HIST 202 History of Turkish Republic II ................................ 2
Elective ............................................................................. 3

THIRD YEAR

Autumn Semester
ELIT 351 Shakespeare I (Comedies, Romances, Problem Plays) .... 3
ELIT 355 Major Writers of the Renaissance ............................... 3
ELIT 361 Modern British Fiction I (to the 1950s) ...................... 3
HUM 111 Cultures Civilizations and Ideas I .............................. 3
Elective ............................................................................. 3

Spring Semester
ELIT 352 Shakespeare II (Tragedies, Roman Plays, Histories) ....... 3
ELIT 356 Major Writers of the Neoclassical Period ................. 3
ELIT 362 Modern British Fiction II (1950s to present) ............ 3
HUM 112 Cultures Civilizations and Ideas II ........................... 3
Elective ............................................................................. 3

FOURTH YEAR

Autumn Semester
ELIT 423 Theory and Practice of Criticism .............................. 3
ELIT 441 British Drama I (from the Restoration to the 1950s) ...... 3
ELIT 463 Post-Colonial Fiction ............................................. 3
ELIT 471 Romantic Poetry .................................................... 3
Elective ............................................................................. 3

Spring Semester
ELIT 438 Selected Topics .................................................... 3
ELIT 442 British Drama II (from the 1950s to present) ............. 3
ELIT 456 Major Writers of the Victorian Period ....................... 3
ELIT 474 20th Century Poetry ............................................... 3
Elective ............................................................................. 3

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.

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.

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. Aut (G. Kurtulus, A. Lake)

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. Aut (S. Taşkin)
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. 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.

ELIT 137  English History I (to the Restoration)
A survey of English history from Roman Britain to the Restoration.  Credit units: 3.

ELIT 138  English History II (to Present)
Sequel to ELIT 137. Surveys English history from the Restoration to the present.  Credit units: 3.

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.

ELIT 205  Oral Expression Discussion and Presentation I
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. Aut (S. Taşkin)

ELIT 208  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. Spr (R. Kayalar, A. Lake)

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.

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. Aut (B. R. Bozkurt)

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.

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. Spr (G. Kurtuluş, S. Taşkin)

ELIT 261  The English Novel I (18th Century)
A study of the major English novelists of the 18th century. Credit units: 3. Prerequisite: ELIT 139. Aut (V. Kennedy)

ELIT 262  The English Novel II (19th Century)
A study of the major English novelists of the 19th century. Credit units: 3. Prerequisite: ELIT 139. Spr (V. Kennedy, A. Lake)

ELIT 270  Poetry
An introduction to poetry through selected examples written in English. Credit units: 3. Spr (B. Karanakçı, L. H. Knight)

ELIT 281  The Short Story
An introduction to the short story through selected examples from British, American, and world writing. Credit units: 3. Prerequisite: ELIT 139. Aut (R. Kayalar)
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.

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.

ELIT 351 Shakespeare I (Comedies, Romances, Problem Plays)
Devoted to Shakespeare's romantic comedies, romances, and problem plays. Credit units: 3, Prerequisite: ELIT
109 or ELIT 137 or ELIT 139. Aut (B. R. Bozkurt, M. H. Çalışkan)

ELIT 352 Shakespeare II (Tragedies, Roman Plays, Histories)
A study of Shakespeare's tragedies, Roman plays, and histories. Credit units: 3, Prerequisite: ELIT 112 or ELIT
130 or ELIT 138. Aut (A. Lake) Spr (L. H. Knight)

ELIT 355 Major Writers of the Renaissance
A study of major works by principal dramatists other than Shakespeare; 16th century lyrics and sonnets; Meta-
physical and Cavalier poetry, and Milton. Credit units: 3, Prerequisite: ELIT 109 or ELIT 137 or ELIT 139. Aut
(B. Karanakçı)

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, Prerequisite: ELIT 109 or ELIT 137 or ELIT 139. Spr (B. Karanakçı)

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 hakespeare’s plays.
The course content will be enriched by the films, historical documents and criticism. Credit units: 3.

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, Prerequisite: ELIT
109 or ELIT 137 or ELIT 139. Aut (R. Kayalar)

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, Prerequisite: ELIT 112 or ELIT 130 or
ELIT 138. Spr (R. Kayalar)

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.

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.

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.

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, Prerequisite: ENG 201 or ELIT 261 or ELIT 223. Aut (R.
Kayalar, A. Lake)

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, Margarita Marquez,
Rabindranath Tagore and Premchand. Credit units: 3.
ELIT 433 Irish Writing
This course is designed to familiarize students with Irish literature, especially with contemporary Irish poets and poetry. Credit units: 3.

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. 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. Prerequisite: ENG 214 or ELIT 242 or ELIT 262. Spr (R. Kayalar, A. Lake)

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. Prerequisite: ENG 201 or ELIT 261 or ELIT 223. Aut (M. H. Çalışkan, 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. Prerequisite: ENG 214 or ELIT 242 or ELIT 262. Aut (G. Kurtuluş) 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.

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. Aut (D. B. Randall)

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.

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. Prerequisite: ENG 214 or ELIT 261 or ELIT 223. Spr (B. Karanakçı)

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.

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. Prerequisite: ENG 201 or ELIT 261 or ELIT 223. Aut (V. Kennedy, D. B. Randall)

ELIT 471 Romantic Poetry
A study of selections from the major works of such poets as Wordsworth, Coleridge, Byron, Shelley and Keats. Credit units: 3. Prerequisite: ENG 201 or ELIT 261 or ELIT 223. Aut (B. Karanakçı, S. Taşkın)

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. 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
roenberg, Ivor Gurney, David Jones, Henry Reed, Alun Lewis, Keith Douglas, 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.
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://phil.bilkent.edu.tr

UNDERGRADUATE PROGRAM

CURRICULUM

FIRST YEAR

<table>
<thead>
<tr>
<th>Autumn Semester</th>
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<tbody>
<tr>
<td>PHIL 101   Introduction to Logic</td>
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<tr>
<td>PHIL 103   Introduction to Philosophy I</td>
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<td>3</td>
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<tr>
<td>MATH 105   Introduction to Calculus I</td>
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<tr>
<td>GE 100     Orientation</td>
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<tr>
<td>CS 121     Introduction to Computing for Social Sciences</td>
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<tr>
<td>ENG 101    English and Composition I</td>
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<tr>
<td>TURK 101   Turkish I</td>
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<table>
<thead>
<tr>
<th>Spring Semester</th>
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<tbody>
<tr>
<td>PHIL 102   Ancient Philosophy</td>
<td></td>
<td>3</td>
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<tr>
<td>PHIL 104   Introduction to Philosophy II</td>
<td></td>
<td>3</td>
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<tr>
<td>MATH 106   Introduction to Calculus II</td>
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<tr>
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<tr>
<td>CS 122</td>
<td>Introduction to Programming for Social Sciences</td>
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<tr>
<td>ENG 102</td>
<td>English and Composition II</td>
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<td>TURK 102</td>
<td>Turkish II</td>
<td>2</td>
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</table>

### SECOND YEAR

#### Autumn Semester
- PHIL 201 Epistemology                          | 3       
- PHIL 203 Rationalists                          | 3       
- PHYS 101 General Physics I                     | 3       
- MATH 255 Probability and Statistics            | 3       
- HIST 201 History of Turkish Republic I         | 2       
- Second Foreign Language                        | 3       

#### Spring Semester
- PHIL 202 Ethics                                | 3       
- PHIL 204 Empiricists                           | 3       
- PHIL 206 Introduction to Psychology            | 3       
- PHYS 102* General Physics II                   | 3       
- MBG 110* Introduction to Modern Biology        | 3       
- HIST 202 History of Turkish Republic II        | 2       
- Second Foreign Language                        | 3       

* Students should take either PHYS 102 or MBG 110

### THIRD YEAR

#### Autumn Semester
- PHIL 301 Political Philosophy                   | 3       
- PHIL 303 Kant                                   | 3       
- PHIL 305 Intermediate Logic                     | 3       
- FA 262 Fine Arts Seminar                        | 3       
- Second Foreign Language                        | 3       

#### Spring Semester
- PHIL 302 Social and Legal Philosophy            | 3       
- PHIL 304 Philosophy of Science                  | 3       
- PHIL 306 Philosophy of Language                 | 3       
- PHIL 308 Philosophy of Mind                      | 3       
- Second Foreign Language                        | 3       

### FOURTH YEAR

#### Autumn Semester
- PHIL 401 Metaphysics                            | 3       
- PHIL 403 Senior Thesis I                        | 3       
- History Restricted Elective                     | 3       
- Literature Restricted Elective                   | 3       
- Elective                                        | 3       

#### Spring Semester
- PHIL 402 Aesthetics                             | 3       
- PHIL 404 Senior Thesis II                       | 3       
- History Restricted Elective                     | 3       
- Elective (2)                                    | 6       

### SECOND FOREIGN LANGUAGE ELECTIVES
- HART 231 Ancient Greek I                        | 3       
- HART 232 Ancient Greek II                       | 3       
- HART 239 Latin I                                | 3       
- HART 240 Latin II                               | 3       
- HART 333 Ancient Greek III                      | 3       
- HART 334 Ancient Greek IV                       | 3       
- HART 343 Latin III                              | 3       

230 FACULTY OF HUMANITIES AND LETTERS
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<td>FRE 111</td>
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<td>FRE 113</td>
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<tr>
<td>FRE 114</td>
<td>Basic French IV</td>
<td>3</td>
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<tr>
<td>GER 111</td>
<td>Basic German I</td>
<td>3</td>
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<tr>
<td>GER 112</td>
<td>Basic German II</td>
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<tr>
<td>GER 113</td>
<td>Basic German III</td>
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<tr>
<td>GER 114</td>
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**HISTORY ELECTIVES**

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<tr>
<td>HIST 347</td>
<td>Ottoman Reform Movements I: Political and Social (1550-1839)</td>
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<tr>
<td>HIST 348</td>
<td>Ottoman Reform Movements II: Political and Social (1839-1914)</td>
<td>3</td>
</tr>
<tr>
<td>HIST 411</td>
<td>Ottoman History: 1300-1600</td>
<td>3</td>
</tr>
<tr>
<td>HIST 412</td>
<td>Ottoman History: 1600-1914</td>
<td>3</td>
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<tr>
<td>HIST 415</td>
<td>British History: 1485-1914</td>
<td>3</td>
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<tr>
<td>HIST 416</td>
<td>Medieval British History</td>
<td>3</td>
</tr>
<tr>
<td>HIST 417</td>
<td>Medieval Europe (500-1500)</td>
<td>3</td>
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<tr>
<td>HIST 418</td>
<td>Modern Europe (1453-1914)</td>
<td>3</td>
</tr>
<tr>
<td>HIST 431</td>
<td>History of the United States until the Reconstruction</td>
<td>3</td>
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<tr>
<td>HIST 432</td>
<td>History of the United States from the Reconstruction</td>
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**LITERATURE ELECTIVES**

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<tr>
<td>ELIT 223</td>
<td>World Mythology</td>
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<tr>
<td>ELIT 261</td>
<td>The English Novel I (18th Century)</td>
<td>3</td>
</tr>
<tr>
<td>AMER 343</td>
<td>American Theater</td>
<td>3</td>
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<tr>
<td>AMER 383</td>
<td>American Novel to 1900</td>
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<tr>
<td>EDEB 401</td>
<td>Introduction to Turkish Literature I</td>
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</tr>
<tr>
<td>EDEB 403</td>
<td>Theories of Literature</td>
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**ELECTIVES**

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>PHIL 405</td>
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<td>PHIL 406</td>
<td>Advanced Philosophy of Mind</td>
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<tr>
<td>PHIL 407</td>
<td>Medieval Philosophy</td>
<td>3</td>
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<tr>
<td>PHIL 408</td>
<td>Nineteenth Century Philosophy</td>
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<tr>
<td>PHIL 409</td>
<td>Introduction to Phenomenology</td>
<td>3</td>
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<tr>
<td>PHIL 410</td>
<td>History of Analytic Philosophy</td>
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<td>PHYS 226</td>
<td>Quantum Physics</td>
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<td>MBG 451</td>
<td>Concepts in Biology I</td>
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<td>ELIT 242</td>
<td>Introduction to Drama</td>
<td>3</td>
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<tr>
<td>ELIT 262</td>
<td>The English Novel II (19th Century)</td>
<td>3</td>
</tr>
<tr>
<td>ELIT 270</td>
<td>Poetry</td>
<td>3</td>
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<tr>
<td>AMER 374</td>
<td>American Poetry</td>
<td>3</td>
</tr>
<tr>
<td>AMER 384</td>
<td>American Novel From 1900</td>
<td>3</td>
</tr>
<tr>
<td>EDEB 402</td>
<td>Introduction to Turkish Literature II</td>
<td>3</td>
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<tr>
<td>EDEB 416</td>
<td>Criticism</td>
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<td>ECON 501</td>
<td>Economics I</td>
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<tr>
<td>ECON 502</td>
<td>Economics II</td>
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<tr>
<td>FA 461</td>
<td>Philosophy of Art</td>
<td>3</td>
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</table>

MBG 110 or PHYS 102 may be taken as elective, if not taken the second year.
COURSE DESCRIPTIONS

UNDERGRADUATE COURSES

PHIL 101 Introduction to Logic
A self-contained introduction to the basic notions of logic, including language, truth, argument, consequence, proof, and counterexample. Both propositional logic and predicate logic are studied (their syntax plus semantics), with an emphasis on translating English sentences into logical symbols. A contemporary software package such as Tarski's World may be used to construct derivations of valid arguments. Credit units: 3. 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.

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 exist 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. Aut (L. Thorpe)

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.

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; naturalized epistemology. Credit units: 3.

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.

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.

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.

PHIL 206 Introduction to Psychology
This course aims to provide an introduction to the nature, functions, and phenomena of behavior and mental experience. In particular, biological underpinnings of psychology; learning; sensation; perception; memory; problem-solving; social cognition; cognitive development. Credit units: 3.

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. Aut (S. Berges, T. M. Besch, W. Korab-Karpowicz, E. Podoksik, 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? These problems and more are examined through a close reading of influential texts in the history of philosophy. The course is mutually supported by the co-requisite course ENG 242 Sophomore Academic English II. Credit units: 3. Prerequisite: PHIL 241.
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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

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.

PHIL 405  Advanced Philosophy of Language
A continuation of PHIL 306 - Philosophy of Language, delving into advanced material. Credit units: 3.

PHIL 406  Advanced Philosophy of Mind
A continuation of PHIL 308 - Philosophy of Mind delving, into advanced material. Credit units: 3.

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.*

**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.*

**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.*

**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.*
DEPARTMENT OF TURKISH LITERATURE

T. S. Halman (Chair), M. Kalpakli, L. Mignon, S. Oğuzer tem, E. Sezer, O. Tekelioğlu, N. Tezcan, H. Yavuz.

Part-time: M. And, 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

(All prep year courses are mandatory.)

Autumn Semester

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<tr>
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<tr>
<td>EDEB 401</td>
<td>Introduction to Turkish Literature I</td>
<td>3</td>
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<tr>
<td>EDEB 403</td>
<td>Theories of Literature</td>
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<tr>
<td>EDEB 405</td>
<td>Written Expression</td>
<td>3</td>
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<tr>
<td>EDEB 409</td>
<td>History of Turkish I</td>
<td>2</td>
</tr>
<tr>
<td>EDEB 411</td>
<td>Ottoman Turkish I</td>
<td>4</td>
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</table>
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”.

### Doctor of Philosophy in Turkish Literature

| EDEB 402 | Introduction to Turkish Literature II | 3 |
| EDEB 410 | History of Turkish II | 2 |
| EDEB 412 | Ottoman Turkish II | 3 |
| EDEB 414 | Introduction to Folk Literature | 3 |
| EDEB 416 | Criticism | 4 |
| EDEB 424 | Introduction to Divan Literature | 3 |

**FIRST YEAR**

| EDEB 503 | Ottoman Divan Literature | 3 |
| EDEB 505 | Turkish Literature 1839-1922 I | 3 |
| EDEB 507 | Turkish Poetry | 3 |
| EDEB 511 | Ottoman Turkish III | 3 |

| EDEB 504 | Turkish Folk Literature | 3 |
| EDEB 506 | Literature of the Republic | 3 |
| EDEB 510 | Turkish Literature 1839-1922 II | 3 |
| EDEB 512 | Ottoman Turkish IV | 3 |
| EDEB 524 | The Turkish Novel | 3 |
| EDEB 534 | Advanced Reading in English | 3 |

**SECOND YEAR**

| EDEB 591 | Thesis Seminar I | 2 |
| EDEB 599 | Master’s Thesis | - |

| EDEB 592 | Thesis Seminar II | 2 |
| EDEB 599 | Master’s Thesis | - |

| EDEB 513 | Sufi Literature | 3 |
| EDEB 514 | Seminar on Divan Literature | 3 |
| EDEB 522 | Readings in Old Anatolian Turkish | 3 |
| EDEB 523 | 13th Century Literature | 3 |
| EDEB 529 | Ottoman Culture Through Miniatures | 3 |
| EDEB 530 | Literary Translation | 3 |
| EDEB 531 | Turkish Traditional Theatre | 3 |
| EDEB 533 | Turkish Immigrant Literature | 3 |

| EDEB 510 | Turkish Literature 1839-1922 II | 3 |
| EDEB 511 | Ottoman Turkish III | 3 |
| EDEB 512 | Ottoman Turkish IV | 3 |
| EDEB 524 | The Turkish Novel | 3 |
| EDEB 534 | Advanced Reading in English | 3 |

**ELECTIVES**

| EDEB 551 | Seminar on Divan Literature | 3 |
| EDEB 522 | Readings in Old Anatolian Turkish | 3 |
| EDEB 523 | 13th Century Literature | 3 |
| EDEB 529 | Ottoman Culture Through Miniatures | 3 |
| EDEB 530 | Literary Translation | 3 |
| EDEB 531 | Turkish Traditional Theatre | 3 |
| EDEB 533 | Turkish Immigrant Literature | 3 |
## CURRICULUM
### FIRST YEAR

#### Autumn Semester

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<td>EDEB 605</td>
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<td>EDEB 607</td>
<td>Modernism in Turkish Literature</td>
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<td>EDEB 619</td>
<td>World Fiction</td>
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#### Spring Semester

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<td>EDEB 610</td>
<td>Psychoanalytic Approaches to Turkish Literature</td>
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<td>EDEB 612</td>
<td>Literature and Society II</td>
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<td>EDEB 614</td>
<td>Seminar on Yasar Kemal</td>
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<td>EDEB 618</td>
<td>Introduction to Semantics</td>
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<td>EDEB 620</td>
<td>Seminar on Evliya Celebi and the Seyahatname</td>
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#### SECOND YEAR

#### Autumn Semester

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#### Spring Semester

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<td>EDEB 699</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-ı 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. (N. Tezcan)

**EDEB 402 Introduction to Turkish Literature II**
This course will provide an overview of Turkish literature from the Tanzimat era to the present. Emphasis will be on the development of 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. (S. Oğuzertem)

**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, Escapit, 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. (S. Oğuzertem)

**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. (S. Oğuzertem)

**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. (K. Emirgül)
EDEB 412 Ottoman Turkish II
This course will enhance the students' comprehension of the Ottoman script and the fundamentals of Ottoman-Turkish grammar through readings and writing exercises. *Credit units: 3.*

EDEB 414 Introduction to Folk Literature
This course will offer an historical survey of the major genres of Turkish folk literature including poetry, folktale, the epic, and folk humor. Students will be introduced to significant scholarly works in the field as well. *Credit units: 3.* Aut (Ö. Oğuz)

EDEB 416 Criticism
This course aims at furnishing the students with a critical understanding of the development of the theory and practice of literary criticism in Turkey since Ottoman times. Readings will include selections from the works of such writers as Ataç, Cemal Süreya, Fethi Naci, Gürbilek, Moran, Parla, Tanpınar, and Yavuz. Assignments will include regular reading reports, a class presentation, and a term paper. *Credit units: 4.*

EDEB 418 Readings in Ottoman Literary Texts
This course is designed to enhance the students' reading skills and vocabulary through readings extending from the 13th century to the early republican period. The texts will include samples from manuscripts, poems, essays, newspaper articles, and short stories. *Credit units: 1.*

EDEB 423 Written and Oral Expression
This course focuses on listening, comprehension, speaking, reading and writing activities related to oral and written material. Language signs will be discussed with respect to the new values they gain as Turkish is being used as a natural, scientific, literary and philosophical language. Ways of listening, speaking, reading and writing will be reviewed. Points that need to be considered while reading, analyzing, interpreting and writing scientific, literary and philosophical texts will be discussed. Students will be asked to write compositions at different levels. *Credit units: 4.*

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.*

EDEB 425 Research and Writing
This course offers an introduction to the methods of academic research. Students will be acquainted with academic resources (research libraries, reference books, catalogs, dictionaries). They will be equipped with the fundamental skills of writing and editing. Techniques of narration and methods of citation will be emphasized. Regular writing assignments will be given. *Credit units: 4.*

EDEB 426 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 (especially Yunus Emre), and the most important works of Divan poetry and prose (from the 14th century to the mid-19th century). The course will include material and methods of instructions to assist students who may be planning to teach in the future. Some innovative techniques will be featured as part of various lectures. *Credit units: 4.*

EDEB 427 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. The course will include material and methods of instructions to assist students who may be planning to teach in the future. Some innovative techniques will be featured as part of various lectures. *Credit units: 4.*

EDEB 428 Appreciation of Literature and Text Review I
(See description for EDEB 429.) *Credit units: 4.*

EDEB 429 Appreciation of Literature and Text Review II
This course will focus on texts and oral material produced between the epic period and the beginning of the 20th century. Characteristics of literary texts will be explored and compared with respect to language, theme, structure, meaning and style. They will also be analyzed in terms of how they relate to the social, political, ethical and aesthetic values in the period they were produced as well as according to their type, form and literary movements. In this way, students will be equipped with the skill of interpreting and evaluating literary texts. *Credit units: 4.*
GRADUATE COURSES

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.

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. (Ö. Öğuz)

EDEB 505 Turkish Literature 1839-1922 I
This course will examine the major developments in Turkish literature from the Tanzimat era to the founding of the Republic. Emphasis will be on the inception and transformation of various literary genres including the novel, the essay, poetry, drama and criticism. The contest between tradition and modernity, debates concerning literariness and the place of literature within society, and the social impact of the literature of the period will be among the key areas of investigation. Readings will consist of the major works of significant writers and poets, as well as secondary literature, including, A.H. Tanpınar’s *XIX. Asır Türk Edebiyatı Tarihi*. **Credit units:** 3. (L. Mignon)

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. (N. Tezcan)

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. (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 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. **Credit units:** 3.

EDEB 511 Ottoman Turkish III
This course will enhance students’ comprehension of Ottoman texts from all periods and genres. **Credit units:** 3. (K. Emiroğlu)

EDEB 512 Ottoman Turkish IV
This course aims at furnishing students with an understanding of problematic Ottoman texts. **Credit units:** 3.

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 Celâleddin 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.

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.

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.

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 Celaleddin Rumi, Hacı Bektâş Veli, Yunus Emre, Nasreddin Hoca and others. This course will deal with Seljuk
culture and literature. Readings will include selections from Rumi’s *Divan*, *Mesnevi*, *Rubaiyat*, Yunus Emre’s poetry and Nasreddin Hoca anecdotes, etc. Credit units: 3.

**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.

**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.

**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. Aut (M. And)

**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.

**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 Karagoz. There are great similarities between Karagoz 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.

**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 consist of works of significant writers and poets, whenever possible the original Turkish, German, English or French texts or their Turkish translations. Credit units: 3.

**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.

**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. 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.

**EDEB 599** Master’s Thesis
Credit units: None. Aut (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
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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.

EDEB 605  East and West in Turkish Literature
From the Orhun Inscriptions to Orhan Pamuk, Turkish Literary history has transpired over a vast geographic area from Eastern Asia to western Europe. Its hallmarks include orientations and dis-orientations, cultural retentions 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.

EDEB 607  Modernism in Turkish Literature
This course will deal mainly with the repercussions of political and social aspects of Modernism qua Western-ization in the Ottoman and Republican Turkish Literature. But, Modernism as a transformation of literature itself, especially in the field of poetry will also be critically investigated. 
Credit units: 3.  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.

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.

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 main 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. he 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.  Aut (O. Tekelioğlu)

EDEB 612  Literature and Society II
Credit units: 3.

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 a term paper, a research project, and an in-class presentation.  
Credit units: 3.

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.  Aut (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 and implicatures, definitions, form and meaning in language, and metaphor and other analogical transfers of meaning commonly used in literary styles.  
Credit units: 3.  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.

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 Seyahatnâme we investigate preconceptions regarding the work and discuss its value today. Credit units: 3.

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. Aut (N. Tezcan)

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.

EDEB 699  Ph.D. Dissertation
Credit units: None. Aut (Staff)
FACULTY OF LAW

Turgut Tan, Ph.D., Dean

The Faculty of Law launching the legal education in Autumn Semester 2002-2003 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

Ömer Faruk Erdem, Assistant Professor

Osman Gürzumar, Visiting Associate Professor
Ph.D., Law, Bern University, 1991. Civil law, competition law.

Tuğrul Katoğlu, Assistant Professor

Erden Kuntalp, Adjunct Professor

Ergun Özbudun, Professor

Turgut Tan, Professor

Hikmet Sami Türk, Adjunct Professor
Ph.D., Law, Köln University 1964. Commercial law, competition law, maritime law.

PART-TIME ACADEMIC STAFF

Tekin Akıllıoğlu, Ph.D., Law, Rennes University, 1972.

Özcan Karadeniz Çelebican, Ph.D., Law, Tubingen University, 1961.

UNDERGRADUATE CURRICULUM

FIRST YEAR

Autumn Semester

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<td>Constitutional Law</td>
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<td>LAW 105</td>
<td>Civil Law: Introduction to Civil Law - Basic Concepts - Law of Persons</td>
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<td>MATH 119</td>
<td>Statistics for Lawyers</td>
<td>3</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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<td>TURK 101</td>
<td>Turkish I</td>
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### Spring Semester

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<td>LAW 104</td>
<td>Constitutional Law</td>
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<td>LAW 106</td>
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<td>Principles of Economics</td>
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<td>HCIV 101</td>
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### Autumn Semester

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<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>
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<td>HIST 201</td>
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### Spring Semester

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### SECOND YEAR

### Autumn Semester

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<td>LAW 301</td>
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<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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<td>LAW 307</td>
<td>Commercial Law I</td>
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<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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<td>LAW 304</td>
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<td>LAW 306</td>
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### THIRD YEAR

### Autumn Semester

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<td>LAW 404</td>
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<td>LAW 406</td>
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<td>LAW 408</td>
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### FOURTH YEAR

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<td>LAW 409</td>
<td>Intellectual and Industrial Property Law</td>
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<td>LAW 411</td>
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### Spring Semester

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<td>LAW 408</td>
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ELECTIVES

LAW 351 Public Economic Law ...................................................... 2
LAW 352 Maritime Law ............................................................... 2
LAW 353 Environmental Law ....................................................... 2
LAW 354 Forensic Medicine .......................................................... 2
LAW 420 International Commercial Arbitration ............................ 2
LAW 421 Internet Law ................................................................. 2
LAW 422 Law of Capital Market ................................................... 2
LAW 423 Modern Contracts Law ................................................... 2

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; organization of the Turkish judicial system; the application of norms and the methods of interpretation; transactions and rights. (in Turkish) 
Credit units: 3. 
Aut (T. Akıllıoğlu, T. Katıoğlu)

LAW 102 Roman Law
The subject of Roman Law and its importance in legal education law; comparative study of Roman Law. Historical introduction and the sources of Roman Law. Law of persons and family law (slavery, citizens and non-citizens, the Roman family, corporations) Law of Actions - Classification of Actions Law of Property (The Law of things, classification of Res, Possession, Ownership, Modes of acquisition, servitudes, real securities) Law of Obligations: Law of contracts (real, literal, verbal and consensual contracts); Quasi contracts (condictio-negotiorum gestio); Law of delicts (Furtum-Ratina-Iniuria-Damnum inuria datum); Quasi delicts Transfer and discharge of obligations. (in Turkish) 
Credit units: 3. 
Spr (Ö. Karadeniz Çelebican)

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. 
Aut (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. 
Prerequisite: LAW 103. 
Spr (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. 
Aut (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 and especially the parental power (patria potestas). Family in broader sense. Guardianship (guardianship in technical sense, curatorship, statutory advisors). (in Turkish) 
Credit units: 3. 
Prerequisite: LAW 105. 
Spr (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. 
Aut (E. Kuntalp)

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. 
Prerequisite: LAW 201. 
Spr (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. Aut (T. Katoğlu)

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. Aut (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. Prerequisite: LAW 205. Spr (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.

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. Prerequisite: LAW 301.

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.

LAW 304  International Private 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.

LAW 305  Civil Law III: Law of Property I
This course offers a study of possession and land register. (in Turkish) Credit units: 3.

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. Prerequisite: LAW 305.

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.

LAW 308  Commercial Law II
This course deals with Law of Partnerships and Corporations. (in Turkish) Credit units: 3.

LAW 309  Law of Obligations (Special Part)
This course deals with certain types of classical agreements specifically regulated in Turkish Code of Obligations and various types of agreements a lawyer may be faced with in modern business life. (in Turkish) Credit units: 2.

LAW 351  Public Economic Law

LAW 352  Maritime Law
This course covers especially the ship owners liability, the agreement of fright and maritime accidents. (in Turkish) Credit units: 2.

LAW 353  Environmental Law
A course offering a survey of the rules and regulations protecting the environment. (in Turkish) Credit units: 2.

LAW 354  Forensic Medicine
This is an elective course dealing with the application of the medicine as an instrument of evidence. (in Turkish) Credit units: 2.
LAW 401  Commercial Law III
This course deals with the subjects of insurance law. (in Turkish) Credit units: 3. Prerequisite: LAW 307 and LAW 308.

LAW 402  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.

LAW 403  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.

LAW 404  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.

LAW 405  International Business Law
A course dealing especially with international business transactions. Credit units: 3.

LAW 406  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: 2.

LAW 407  Law of Taxation
General principles and institutions, the Turkish tax system in general (classification of major taxes; income tax, corporate tax, value added tax); process of taxation; tax disputes. (in Turkish) Credit units: 2.

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: 2.

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.

LAW 410  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.

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.

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.

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.

LAW 422  Law of Capital Market
This course deals with the rules and regulations being applied on the instruments and transactions in the capital market. (in Turkish) Credit units: 2.

LAW 423  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.

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. AutÔ. 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.
FACULTY OF MUSIC AND PERFORMING ARTS

İşin Metin, Ph.D., Acting Dean

The Faculty of Music and Performing Arts comprises two academic departments:

- **Music**
- **Performing Arts**

Bilkent University Faculty of Music and Performing Arts was founded in 1986 as one of the first three faculties of the University. With the exception of the State Conservatories, it is the first faculty in Turkey offering higher education in the fields of music and performing arts.

The Music Department of the Faculty offers training in most artistic fields, including composition, piano, string and wind instruments, as well as opera and rhythmic music. The Theater department offers programs in acting, directing and opera directing.

The Faculty, through the multifaceted studies it undertakes, aims to train artists who are creators, interpreters, educators and researchers in their respective fields; to offer graduate education in music and performing arts; 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 D.M.A. (Doctor of Musical Arts) and its professional ensembles and artistic organizations. Among the other activities of the Faculty are the Early Music Training Program, Music Preparatory Primary and High Schools, the Bilkent Preparatory Symphony Orchestra, Bilkent Youth Symphony Orchestra, Bilkent Youth Choir, the Bilkent Youth Theater, the Bilkent Symphony Orchestra and the Bilkent International Anatolian Music Festival.

The undergraduate and graduate programs have been designed to equip young musicians and actors with the skills necessary to participate in and contribute to national and international events.

The public and universal identity of art necessitates the early and dynamic integration of art education with the society and the international art world. That is why, diffusing the appreciation of music in Turkey, actively participating and contributing to the artistic world nationally and internationally, are among the primary objectives of the Faculty.

**ACADEMIC STAFF**

**Feruza Abdullayeva**, Instructor
M.M. Chamber Music, Bilkent University, 1999. Member, BSO.

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M.M., Chamber Music, Bilkent University, 1997. Member, BSO.

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Kerem Aykal, Instructor  
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B.M., French Horn, Tchaikovsky Moscow State Conservatory, 1996. Member BSO.

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M.M., Chamber Music, Bilkent University, 1995. Violin.

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Server Ganiev, Visiting Professor

togroul Ganioglu, Instructor

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Ankara State Conservatory, 1942. “State Artist” Republic of Turkey.

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M.M., French Horn, Bilkent University, 1996. Member, BSO.

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Aydın Mecid, Instructor

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Ersin Onay, Professor

Selen Özyıldırım, Instructor
M.M., Clarinet, Bilkent University, 1988. Member, BSO.

Adrian Petrescu, Instructor
Albena Petrova, Instructor
M.M., Flute, Sofia State Musical Academy, 1995. Principle Flute BSO.

Elena Postnova, Instructor
Proficiency in Musical Arts, Violin, Bilkent University, 1998. Member, BSO.

Artur Rakhmatoullaev, Instructor
B.M., Violoncello, Moscow State Conservatory, 1982. Member, BSO. Instrument.

Alexandre Rapoport, Instructor
B.M., Trumpet, Tchaikovsky Moscow State Conservatory, 1985. Member, BSO.

Sardor Rasulov, Instructor
B.M., Violoncello, Moscow State Conservatory, 1990. Member, BSO.

Uluğbek Rykhsiev, Instructor
B.M., Viola, Tashkent State Conservatory, 1985. Member, BSO.

Elena Rykhsieva, Instructor
B.M., Violin, Tashkent State Conservatory, 1986. Member, BSO.

Sekina Saidova, Instructor
B.M., Viola, Moscow State Conservatory, 1973. Member, BSO.

Ayşe Sezer, Instructor

Zurab Sikharulidze, Instructor

Shota Skhirtladze, Instructor

Andre Sommer, Instructor

Lyubomira Subasheva, Instructor
B.M., Choral Conducting, Sofia State Conservatory, 1984. Ear training, Conductor, Bilkent Preparatory Choir.

Bahar Sunar-Kutay, Instructor
M.M., Violin, Bilkent University, 1995. Member, BSO.

Smolina Svetlana, Instructor
B.M., Viola, Tashkent State Conservatory, 1986. Member, BSO.

Janusz Szprot, Instructor

Teymur Şemsiyev, Instructor

Aida Tagizade, Instructor

Kürşad Terci, Instructor

Andrey Trifonov, Instructor

Zurab Tsitsuashvili, Instructor

Bahar Tuğlu, Instructor
B.M., Harp, Ankara State Conservatory, Hacettepe University, 1992. Member BSO.
Muhammedjan Turdiev, Instructor

Yiğit Ülgen, Instructor
D.M.A., Proficiency in Musical Arts, Violoncello, Bilkent University, 1999. Member, BSO.

Leonid Volkov, Instructor
B.M., Clarinet, Moscow State Conservatory, 1993. Member, BSO.

Rafik Zamanov, Instructor
B.M., Violin, Azerbaijan State Conservatory, 1977. Member, BSO.

Zita Zempleni, Instructor
B.M., Flute, Ferenc Liszt Music Academy, 1980. Member, BSO.

Dmitri Zlotosovski, Instructor
B.M., Bassoon, Tchaikovsky Moscow State Conservatory, 1994. Principle Bassoon BSO.

Vladimir Zverev, Instructor

VOCATIONAL SPECIALISTS

Guram Apkhazava
B.S., Tbilisi University, Georgia, 1969. Translator.

Leonard Çelov

Recai Erol
Diploma, Uşak Akşam Lisesi, 1976. Sound Effects, Lighting

Nanuli Kaçarava
B.S., Tbilisi State University, 1981. Translator.

Nuri Özak yol

Anzor Shamugia
B.S., Tbilisi State University, Faculty of Geography and Geology. Translator.

PART-TIME ACADEMIC STAFF

Arzu Açıklalın, B.M., Composition, Bilkent University, 2003.


Derya Deniz, B.M., Composition, Bilkent University, 2000.


Hakan Kaikan, M.M., Conducting, Conservatoire National de Region de Perpignan.
Peter Körner, Weimer Hochschule für Music. Trombone.
Mesruh Savaş, B.M., Composition, Bilkent University, 2002.
Sevda Şener, Ph.D., Theater, Ankara University, 1962.
Erhan Torlular, B.M., Composition, Bilkent University, 2003.
DEPARTMENT OF MUSIC


The Faculty's departments are today internationally renowned for their excellence in education, international artistic establishments and organization of various events. 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 for the current and future needs of Turkey.

In addition to the undergraduate and graduate programs, preparatory primary and high schools for music were also planned and founded (in 1986) with the goal that music education should start at the earliest age possible. Programs for kindergarten were also attached to the Music Preparatory Schools. The Early Music Training Program was established in 1994 for children aged 4 to 14. Part-time education programs have been ongoing since 1987 in order to expand music education to everyone, regardless of age and profession.

The Institute of Music and Performing Arts was established in 1988 to emphasize the importance of graduate education through its Master's and Proficiency in Art (doctorate) level programs. These developments took place at a fast pace in order to rapidly create an environment of the highest caliber, reflecting our cultural heritage, conducive to learning, creativity, research and realization of artistic events.

The Music Department offers Primary School, High School, Bachelor of Music-B.M., Master of Music-M.M, Proficiency in Art/Doctor of Music-D.M.A. degrees in the following programs and fields:

  - Music Theory, Composition.
- Instrument Option - Primary School, High School, 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 - High School, B.M., M.M.
The public and universal identity of art necessitates the early and dynamic integration of art education with the society and the international art world. That is why diffusing the appreciation of music in Turkey, actively participating and contributing to the artistic world nationally and internationally, are among the primary objectives of the Department. Amongst numerous artistic activities of the faculty are the “International Chopin Piano Competition” 1999 and the “International Theater Meeting” 1998.

**Bilkent Anatolia Music Festival**

The Bilkent Anatolia Music Festival was initiated in 1994. The basis in the design of this festival dedicated to Anatolia is the universality and unifying qualities of music. The main theme of the festival is “A call to peace and friendship through the common language of music.”

The goal of the Bilkent Anatolia Music Festival is to spread universal classical music as well as contemporary Turkish Composers’ works throughout Anatolia. Brought to life by the former Dean of the FMPA Prof. Ersin Onay, it is unique among international festivals, owing to its mobile nature. It was planned to reach to parts of Anatolia that are thirsty for art and thus has undertaken a significant public mission. Not only this feature but also the high artistic standard of the Bilkent Anatolia Music Festival has brought it international acclaim and a select place in the world of art.

The Anatolia Music Festival has so far conducted activities in many parts of Anatolia, traveling thousands of kilometers each year and meeting tens of thousands of connoisseurs of art, both Turkish and foreign.

**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 10 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 80 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 and recently to Switzerland to take part in the Monteux Festival.

**UNDERGRADUATE PROGRAMS**

**COMPOSITION OPTION**

**FIRST YEAR**

**Autumn Semester**

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MUSS 251 Piano - Composition I .................................. 2
MUSS 261 Knowledge of Instrument I ............................. 2
MUSS 311 Chorus I ................................................. 1
ELS 101 English for Professional Purposes I ................. 4
FA 171 Introduction to Art and Culture I ....................... 3
TURK 101 Turkish I ................................................. 2

Spring Semester
MUSS 202 Composition II ......................................... 3
MUSS 212 Harmony - Composition II ............................. 4
MUSS 222 History of Music - Composition II ................. 2
MUSS 232 Ear Training - Composition II ....................... 3
MUSS 242 Polyphony II ............................................ 2
MUSS 252 Piano - Composition II ................................ 2
MUSS 262 Knowledge of Instrument II ........................... 2
MUSS 312 Chorus II ................................................. 1
ELS 102 English for Professional Purposes II ............... 4
FA 172 Introduction to Art and Culture II ..................... 3
TURK 102 Turkish II ................................................. 2

SECOND YEAR

Autumn Semester
MUSS 203 Composition and Instrumentation I ............... 4
MUSS 213 Harmony - Composition III .......................... 4
MUSS 223 History of Music - Composition III ............... 2
MUSS 225 Form and Analysis I ................................... 2
MUSS 233 Ear Training - Composition III ..................... 3
MUSS 243 Fugue I .................................................. 3
MUSS 253 Piano - Composition III .............................. 2
MUSS 313 Chorus III .............................................. 1
HIST 201 History of Turkish Republic I ....................... 2

Spring Semester
MUSS 204 Composition and Instrumentation II ............... 4
MUSS 214 Harmony - Composition IV ........................... 4
MUSS 224 History of Music - Composition IV ............... 2
MUSS 226 Form and Analysis II .................................. 2
MUSS 234 Ear Training - Composition IV ...................... 3
MUSS 244 Fugue II .................................................. 3
MUSS 254 Piano - Composition IV .............................. 2
MUSS 314 Chorus IV ............................................... 1
HIST 202 History of Turkish Republic II ....................... 2

THIRD YEAR

Autumn Semester
MUSS 205 Composition and Orchestration I .................... 7
MUSS 235 Score Reading and Playing I ........................ 2
MUSS 255 Piano - Composition V ................................ 2
MUSS 265 Conducting - Composition I .......................... 2
MUSS 275 Traditional to Modern Jazz Techniques I .......... 3
MUSS 285 Traditional Turkish Music ............................ 1
MUSS 297 History of Opera I ..................................... 2
MUSS 315 Chorus V ............................................... 1
Elective Language .................................................. 3

Spring Semester
MUSS 206 Composition and Orchestration II .................... 7
MUSS 236 Score Reading and Playing II ........................ 2
MUSS 256 Piano - Composition VI .............................. 2
MUSS 266 Conducting - Composition II ......................... 2
MUSS 276 Traditional to Modern Jazz Techniques II ........................................... 3
MUSS 286 Divan Music ......................................................................................... 1
MUSS 298 History of Opera .................................................................................. 2
MUSS 316 Chorus VI ......................................................................................... 1
Elective Language ............................................................................................. 3

**FOURTH YEAR**

**Autumn Semester**
- MUS 269 History of the Opera III ................................................................. 1
- MUSS 207 Composition and Orchestration III ................................................. 9
- MUSS 227 Musical Analysis I ........................................................................... 2
- MUSS 257 Piano - Composition VII ............................................................... 2
- MUSS 267 Conducting - Composition III ....................................................... 2
- MUSS 287 Contemporary Turkish Music ........................................................ 1

**Spring Semester**
- MUS 270 History of the Opera IV ................................................................. 1
- MUSS 228 Musical Analysis II ......................................................................... 2
- MUSS 258 Piano - Composition VIII ............................................................. 2
- MUSS 268 Conducting - Composition IV ........................................................ 2

**INSTRUMENT OPTION**

**FIRST YEAR**

**Autumn Semester**
- MUSS 101 Instrument I .................................................................................... 7
- MUSS 141 Orchestra I (String-Wind) .............................................................. 3
- MUSS 151 Ensemble I (Guitar-Wind) .............................................................. 3
- MUSS 171 Accompanying I (Piano) ................................................................. 3
- MUSS 291 Harmony I ...................................................................................... 2
- MUSS 295 History of Music I .......................................................................... 2
- ELS 101 English for Professional Purposes I ................................................... 4
- FA 171 Introduction to Art and Culture I ........................................................ 3
- TURK 101 Turkish I ......................................................................................... 2

**Spring Semester**
- MUSS 102 Instrument II .................................................................................. 7
- MUSS 142 Orchestra II (String-Wind) ........................................................... 3
- MUSS 152 Ensemble II (Guitar-Wind) ............................................................ 3
- MUSS 172 Accompanying II (Piano) ............................................................... 3
- MUSS 292 Harmony II .................................................................................... 2
- MUSS 296 History of Music II ....................................................................... 2
- ELS 102 English for Professional Purposes II ............................................... 4
- FA 172 Introduction to Art and Culture II ........................................................ 3
- TURK 102 Turkish II ...................................................................................... 2

**SECOND YEAR**

**Autumn Semester**
- MUSS 103 Instrument III ................................................................................ 7
- MUSS 123 Chamber Music I .......................................................................... 3
- MUSS 143 Orchestra III (String-Wind) .......................................................... 3
- MUSS 153 Ensemble III (Guitar-Wind) .......................................................... 3
- MUSS 173 Accompanying III (Piano) ............................................................. 3
- MUSS 293 Form and General Music Analysis I .............................................. 2
- HIST 201 History of Turkish Republic I ....................................................... 2

**Spring Semester**
- MUSS 104 Instrument IV ................................................................................ 7
- MUSS 124 Chamber Music II ........................................................................... 3
- MUSS 144 Orchestra IV (String-Wind) .......................................................... 3
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<td>MUSS 125</td>
<td>Chamber Music III</td>
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<td>MUSS 145</td>
<td>Orchestra V (String-Wind)</td>
<td>Autumn</td>
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<td>MUSS 155</td>
<td>Ensemble V (Guitar-Wind)</td>
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<td>MUSS 175</td>
<td>Accompanying V (Piano)</td>
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<td>MUSS 106</td>
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<td>MUSS 126</td>
<td>Chamber Music IV</td>
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<td>MUSS 146</td>
<td>Orchestra VI (String-Wind)</td>
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<td>MUSS 156</td>
<td>Ensemble VI (Guitar-Wind)</td>
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<td>MUSS 176</td>
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<td>MUSS 227</td>
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**THIRD YEAR**

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<td>MUSS 127</td>
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<td>MUSS 147</td>
<td>Orchestra VII (String-Wind)</td>
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<td>MUSS 157</td>
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<td>MUSS 177</td>
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<td>MUSS 187</td>
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<td>MUSS 227</td>
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**FOURTH YEAR**

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<td>MUSS 148</td>
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<td>MUSS 158</td>
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<td>MUSS 178</td>
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<td>MUSS 228</td>
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**SINGING OPTION**

**FIRST YEAR**

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<td>MUSS 351</td>
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<td>MUSS 361</td>
<td>German - Singing I</td>
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<td>THEA 103</td>
<td>Voice and Speech I</td>
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<td>THEA 107</td>
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<td>THEA 181</td>
<td>Acting Techniques I-Singing</td>
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<td>ELS 101</td>
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<td>FA 171</td>
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<td>TURK 101</td>
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### Spring Semester
- MUSS 272 Ear Training - Singing II ........................................ 2
- MUSS 296 History of Music II ............................................ 2
- MUSS 302 Singing II .................................................. 7
- MUSS 312 Chorus II .................................................. 1
- MUSS 342 Italian - Singing II ........................................ 2
- MUSS 352 Piano - Singing II ........................................ 2
- MUSS 362 German - Singing II ........................................ 2
- THEA 104 Voice and Speech II ....................................... 2
- THEA 108 Movement II .............................................. 2
- THEA 182 Acting Techniques II-Singing ............................ 3
- ELS 102 English for Professional Purposes II .................. 4
- FA 172 Introduction to Art and Culture II ....................... 3
- TURK 102 Turkish II ............................................... 2

### Autumn Semester
- MUS 233 History of Music III ....................................... 2
- MUSS 273 Ear Training - Singing III .................................. 2
- MUSS 291 Harmony I ................................................ 2
- MUSS 303 Singing III ................................................ 7
- MUSS 313 Chorus III ................................................ 1
- MUSS 343 Italian - Singing III ....................................... 2
- MUSS 353 Piano - Singing III ....................................... 2
- THEA 203 Voice and Speech III ..................................... 3
- THEA 281 Acting Techniques III-Singing .......................... 3
- HIST 201 History of Turkish Republic I ......................... 2

### Spring Semester
- MUS 234 History of Music IV ....................................... 2
- MUSS 274 Ear Training - Singing IV .................................. 2
- MUSS 292 Harmony II ................................................ 2
- MUSS 304 Singing IV ................................................ 7
- MUSS 314 Chorus IV ................................................ 1
- MUSS 344 Italian - Singing IV ....................................... 2
- MUSS 354 Piano - Singing IV ....................................... 2
- THEA 204 Voice and Speech IV ..................................... 3
- THEA 282 Acting Techniques IV-Singing .......................... 3
- HIST 202 History of Turkish Republic II ......................... 2

### Autumn Semester
- MUSS 293 Form and General Music Analysis I ..................... 2
- MUSS 297 History of Opera I ....................................... 2
- MUSS 305 Singing V ................................................ 7
- MUSS 315 Chorus V ................................................ 1
- MUSS 345 Italian - Singing V ....................................... 2
- MUSS 355 Piano - Singing V ....................................... 2
- MUSS 385 Recital I .................................................. 3
  - Elective Language .................................................. 3

### Spring Semester
- MUSS 294 Form and General Music Analysis II ..................... 2
- MUSS 298 History of Opera II ....................................... 2
- MUSS 306 Singing VI ............................................... 7
- MUSS 316 Chorus VI ................................................ 1
- MUSS 346 Italian - Singing VI .................................... 2
- MUSS 356 Piano - Singing VI ..................................... 2
  - Elective Language .................................................. 3

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**SECOND YEAR**

**THIRD YEAR**
FOURTH YEAR

Autumn Semester
MUS 269 History of the Opera III .................................................. 1
MUSS 227 Musical Analysis I .......................................................... 2
MUSS 307 Singing VII ................................................................. 9
MUSS 317 Chorus VII ................................................................. 1
MUSS 327 Stage Applications VII (Stage) ........................................ 2
MUSS 337 Interpretation of Lied and Oratorio ................................ 2
MUSS 387 Recital II .................................................................

Spring Semester
MUS 270 History of the Opera IV ................................................ 1
MUSS 228 Musical Analysis II .......................................................... 2
MUSS 308 Singing VIII ................................................................. 9
MUSS 318 Chorus VIII ................................................................. 1
THEA 211 Make-up I ................................................................. 2

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.

CURRICULUM FOR THE MASTER OF MUSIC PROGRAM

COMPOSITION OPTION

FIRST YEAR

Autumn Semester
MUS 543 Composition I ............................................................... 3
MUS 547 Orchestration I ................................................................. 2
MUS 549 Score Reading and Playing I ........................................... 1

Spring Semester
MUS 544 Composition II ............................................................... 3
MUS 548 Orchestration II ................................................................. 2
MUS 550 Score Reading and Playing II ........................................... 1
MUS 608 Twentieth Century Music ................................................. 2

SECOND YEAR

Autumn Semester
MUS 651 Composition III .............................................................. 3
MUS 653 Orchestration III ................................................................. 2
MUS 655 Score Reading and Playing III ........................................... 1
MUS 877 Twentieth Century Music ................................................. 2
### Spring Semester

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**GRADUATION**

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**INSTRUMENT OPTION**

**FIRST YEAR**

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<td>MUS 615</td>
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**SECOND YEAR**

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### Spring Semester

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**CHAMBER MUSIC OPTION**

**FIRST YEAR**

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### CURRICULUM FOR THE PROFICIENCY IN MUSIC PROGRAM

#### COMPOSITION OPTION

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## SECOND YEAR

### Autumn Semester
- MUS 985 Composition III .............................................. 2
- MUS 987 Orchestration III ........................................... 2

### Spring Semester
- MUS 908 Twentieth Century Music ...................................... 1
- MUS 986 Composition IV ............................................... 3
- MUS 988 Orchestration IV ............................................. 2

### Graduation
- MUS 866 Graduation Project ........................................... 1

## INSTRUMENT OPTION

### FIRST YEAR

### Autumn Semester
- MUS 803 Chamber Music I ............................................. 1
- MUS 824 Decipher I (Piano) .......................................... 2
- MUS 878 Instrument I .................................................. 2
- MUS 881 Orchestra Repertoire I (String-Wind) .................... 1
- MUS 889 Transcription I (Guitar) ................................... 1

### Spring Semester
- MUS 804 Chamber Music II ............................................ 1
- MUS 808 Research Methods ........................................... 2
- MUS 825 Decipher II (Piano) .......................................... 2
- MUS 879 Instrument II ................................................. 2
- MUS 882 Orchestra Repertoire II (String-Wind) ................... 1
- MUS 890 Transcription II (Guitar) ................................... 1

## SECOND YEAR

### Autumn Semester
- MUS 907 Program Development in Instrument Training .......... 1
- MUS 913 Instrument III ................................................. 2
- MUS 917 Chamber Music III ............................................ 1
- MUS 921 Orchestra Repertoire III (String-Wind) .................. 1
- MUS 927 Transcription III (Guitar) .................................. 1

### Spring Semester
- MUS 908 Twentieth Century Music .................................... 1
- MUS 914 Instrument IV .................................................. 3
- MUS 918 Chamber Music IV ............................................ 1
- MUS 922 Orchestra Repertoire IV (String-Wind) .................. 1
- MUS 928 Transcription IV (Guitar) ................................... 1

### Graduation
- MUS 866 Graduation Project ........................................... 1

## CHAMBER MUSIC OPTION

### FIRST YEAR

### Autumn Semester
- MUS 872 Instrument I .................................................. 1
- MUS 881 Orchestra Repertoire I (String-Wind) ..................... 1
- MUS 888 Chamber Music Repertoire I .................................. 2
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## MUS 866  Graduation Project

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## SINGING OPTION

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<td>MUS 997</td>
<td>Opera Directing</td>
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## MUS 866  Graduation Project

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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. **Aut** (C. Akçora, G. Aliev, G. Azizova, S. Ganiev, T. Gançılğlu, J. Györfy, R. Hacıbeyoğlu, H. Hoxha, A. Kirkan, K. Korad, S. S. Markova, A. Mecid, V. Milanova, İ. Nikotina, M. Rahmatullaeva, S. Rasulov, U. Rykhsiev, Z. Safarova, A. Sezer, M. Turdiev, V. Zverev)

**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. **Prerequisite:** MUSS 101. **Aut** (A. Trifonov, V. Zverev) **Spr** (C. Akçora,
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, 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, 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, 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, Prerequisite: MUSS 105.

MUSS 107  Instrument VII
The course aims to achieve maturity in every aspect of interpretation. Analysis of style and interpretation through the study of detail on pieces. To help gain physical and psychological ease during stage performance of rather difficult and long masterpieces. Selected repertoire listing to be performed progressively throughout the semester.

Credit units: 7, Prerequisite: MUSS 106.

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, Prerequisite: MUSS 107.

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. 

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. 

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. 

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. 

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. 

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. 

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. 

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. 

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.
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, Prerequisite: MUSS 125. Aut (J. Győrfy, S. S. Markova, Y.Ülgen) Spr (E. Gnezdilova, J. Győrfy, S. S. Markova, A. Mecid)

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, Prerequisite: MUSS 126. Aut (E. Gnezdilova, S. Güner, Y.Ülgen, V. Zverev) Spr (J. Győrfy, S. S. Markova, Y.Ülgen)

MUSS 128 Chamber Music VI
Analytic analysis and interpretation of the contemporary chamber music repertoire consisting of compositions by Dvorak, Shostakovich, Rachmaninoff, Debussy, Bartok, Saygun, Erkin. Credit units: 3, Prerequisite: MUSS 127. Aut (S. Güner, Y.Ülgen) Spr (E. Gnezdilova, S. Güner, J. Győrfy, Y.Ülgen, V. Zverev)

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. Aut (H. Kalkan) Spr (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, 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, 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, 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, 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, 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, Prerequisite: MUSS 146. Aut (H. Kalkan) Spr (H. Kalkan)
MUSS 148  Orchestra VIII (String-Wind)
The FSPA 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. Prerequisite: MUSS 147. Aut (H. Kalkan) 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. Aut (K. Korad)

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, Prerequisite: MUSS 151. Spr (K. Korad)

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. Aut (K. Korad)

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, Prerequisite: MUSS 152. Aut (K. Korad)

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, Prerequisite: MUSS 153. Spr (K. Korad)

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, Prerequisite: MUSS 154. Aut (K. Korad)

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, Prerequisite: MUSS 155. Spr (K. Korad)

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, Prerequisite: MUSS 156.

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. Aut (A. 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, Prerequisite: MUSS 171. Spr (A. 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, Prerequisite: MUSS 172. Aut (A. 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, Prerequisite: MUSS 173. Spr (A. 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, Prerequisite: MUSS 174.

**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, Prerequisite: MUSS 175. Aut (A. 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, Prerequisite: MUSS 176. Aut (A. Sommer) Spr (A. 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, Prerequisite: MUSS 177. Spr (A. Sommer)

**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. Aut (S. Ganiev, Y. Gürerk, S. S. Markova) Spr (S. Ganiev, Y. Gürerk, S. S. Markova)

**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, Prerequisite: MUSS 185. Aut (S. Ganiev, Y. Gürerk) Spr (S. Ganiev, Y. Gürerk, S. S. Markova)

**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. Aut (F. Köksal)

**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. Prerequisite: MUSS 201.

**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. Transcription of pieces from various styles for double and triple orchestral formations. Credit units: 4, Prerequisite: MUSS 202. Aut (M. Cetiz, F. Köksal, I. Metin)

**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, Prerequisite: MUSS 203. Spr (M. Cetiz, F. Köksal, I. Metin)

**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, Prerequisite: MUSS 204. Aut (M. Cetiz, B. Hoinic)
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, Prerequisite: MUSS 205. Aut (I. Metin) 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, Prerequisite: MUSS 206. Aut (M. Cetiz, B. Hoinic, F. Köksal, I. Metin) Spr (I. Metin)

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.

MUSS 211  Harmony - Composition I

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, 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 variations. Complex binary forms, its use, formation 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, Aut (F. Köksal)

MUSS 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 the composition department. Credit units: 2, Spr (F. Köksal)

MUSS 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, Prerequisite: MUSS 226. Aut (M. Cetiz)

MUSS 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, Prerequisite: MUSS 227. Spr (M. Cetiz)

MUSS 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 harmonic perception. Harmonic and formal perception. Dictation of difficult two period one-part, two-part and three-part 16 measure dictées 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. Aut (M. Nowotna)

MUSS 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 dictées containing mixed rhythms, syncopation, agogy; Homophonic 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, Prerequisite: MUSS 231. Spr (M. Nowotna)

MUSS 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 dictées 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, Prerequisite: MUSS 232. Aut (M. Nowotna)

MUSS 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 dictées 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, Prerequisite: MUSS 233. Spr (M. Nowotna)

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. Aut (A. 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 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, Prerequisite: MUSS 233. Spr (A. Sommer)

MUSS 241 Polyphony I

MUSS 242 Polyphony II

MUSS 243 Fugue I

MUSS 244 Fugue II

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. Aut (A. Bagirova)

MUSS 252 Piano - Composition II
Further study to enhance the skills gained in MUSS 251 on a new repertoire. Credit units: 2, Prerequisite: MUSS 251. Spr (A. Bagirova)

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, Prerequisite: MUSS 252. Aut (H. Emrahova, Y. Gürerk, A. Özuğur)
MUSS 254  Piano - Composition IV
Further study to enhance the skills gained in MUSS 253 on a new repertoire.  
Credit units: 2, Prerequisite: MUSS 253.  
Spr (H. Emrahova, Y. Gürek, A. Özügür)

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, Prerequisite: MUSS 254.  
Aut (H. Emrahova, T. Ganieva, A. Özügür)

MUSS 256  Piano - Composition VI
Further study to enhance the skills gained in MUSS 255 on a new repertoire.  
Credit units: 2, Prerequisite: MUSS 255.  
Aut (H. Emrahova, T. Ganieva)  
Spr (H. Emrahova, T. Ganieva, A. Özügür)

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, Prerequisite: MUSS 256.  
Aut (H. Emrahova, T. Ganieva, A. Özügür)  
Spr (H. Emrahova, T. Ganieva)

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, Prerequisite: MUSS 257.  
Spr (H. Emrahova, T. Ganieva, A. Özügür)

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.  
Aut (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.  
Prerequisite: MUSS 261.  
Spr (M. Karabey)

MUSS 265  Conducting - Composition I
Credit units: 2.  
Aut (E. Hristova)

MUSS 266  Conducting - Composition II
Credit units: 2, Prerequisite: MUSS 265.  
Spr (E. Hristova)

MUSS 267  Conducting - Composition III
Credit units: 2, Prerequisite: MUSS 266.  
Aut (H. Kalkan)

MUSS 268  Conducting - Composition IV
versus choir. Concert planning. Program planning. Rehearsing and conducting a triple orchestra with choir. Selected repertoire to be conducted and sight played on the piano. Credit units: 2, Prerequisite: MUSS 267. Spr (H. Kalkan)

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 dictées 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, Aut (N. Skhvitaridze, L. Subasheva)

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 dictées containing mixed rhythms, Homophonic style including all the intervals with diatonic 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, Prerequisite: MUSS 271. Spr (M. Nowotna, N. Skhvitaridze)

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 dictées 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, Prerequisite: MUSS 273. Aut (N. Skhvitaridze, L. Subasheva)

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: 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, Prerequisite: MUSS 275.

MUSS 285 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, Aut (S. Agaeva)

MUSS 286 Divan Music
Brief history of Ottoman art. Modes and forms of Divan music through inquiry into old “Edvär”s of the Ottoman masters. Analytic analysis of theories of these “Edvär”s. Brief study into A.A.Saygun’s findings concerning the translation and re-translation of Antique Greek music theories into Arabic and Latin. Brief discussion on Saygun’s view concerning the validity in these translations. Inquiry into the new modal analysis theories as implemented by Saygun and Bartok. Credit units: 1, Spr (S. Agaeva)

MUSS 287 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. 

**MUSS 291 Harmony I**

*Credit units: 1, Prerequisite: MUSS 286. Aut (S. Agaeva)*

**MUSS 292 Harmony II**

*Credit units: 2, Prerequisite: MUSS 291. Spr (M. Cetiz)*

**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, Prerequisite: MUSS 292. Aut (A. Tagizade)*

**MUSS 294 Form and General Music Analysis II**
Rondo forms, its use and variation. 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, Prerequisite: MUSS 293. Spr (A. Tagizade)*

**MUSS 295 History of Music I**

*Credit units: 2. Aut (N. Mehtiyeva)*

**MUSS 296 History of Music II**

*Credit units: 2, Prerequisite: MUSS 296. Spr (N. Mehtiyeva)*

**MUSS 297 History of Opera I**

*Credit units: 2. Aut (N. Mehtiyeva)*
MUSS 298  History of Opera II
The formation of new musical-theatre genres in French Art. Offenbach, a classic in French operetta “Lyric Drama”
Gounod, Massenet, Bizet. Opera in Italy: Verdi. Opera in Russia: Tchaikovsky and members of the “Russian
Five” union. Mussorgsky, Borodin, Rimsky-Korsakov. Opera in Czechoslovakia: B. Smetana, Dvorak. Opera
at the end of the 19th century and the beginning of the 20th century. French Music culture “Impressionism”:
Debussy, Ravel. Germany: Strauss and Late Romanticism. The “New Vienna School”, Schoeneberg, Berg and
Webern. Italian Opera: “Verismo” Mascagni, Leoncavallo and Puccini. Opera in Hungary, Bartok. Opera in

MUSS 301  Singing I
Credit units: 7. Aut (I. Gospodinova Soykan, P. Kirgiz)

MUSS 302  Singing II
Credit units: 7, Prerequisite: MUSS 301. Aut (P. Kirgiz) Spr (I. Gospodinova Soykan, P. Kirgiz)

MUSS 303  Singing III
Credit units: 7, Prerequisite: MUSS 302. Aut (D. Çolakoğlu, P. Kirgiz, G. G. Şekeramber) Spr (P. Kirgiz)

MUSS 304  Singing IV
Credit units: 7, Prerequisite: MUSS 303. Spr (D. Çolakoğlu, P. Kirgiz, G. G. Şekeramber)

MUSS 305  Singing V
Credit units: 7, Prerequisite: MUSS 304. Aut (P. Kirgiz, G. G. Şekeramber)

MUSS 306  Singing VI
Credit units: 7, Prerequisite: MUSS 305. Aut (G. G. Şekeramber) Spr (P. Kirgiz, G. G. Şekeramber)

MUSS 307  Singing VII
Credit units: 9, Prerequisite: MUSS 306. Aut (I. Gospodinova Soykan, P. Kirgiz) Spr (G. G. Şekeramber)

MUSS 308  Singing VIII
Credit units: 9, Prerequisite: MUSS 307.

MUSS 311  Chorus I
Score analysis, discussion and study of various composers’ principal choral works. Comparison of formal char-
acteristics, 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. Aut (E. Hristova, L. Subasheva)

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, Prerequisite: MUSS 311. Aut (E. Hristova,
L. Subasheva) Spr (E. Hristova, L. Subasheva)

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, Prerequisite: MUSS 312. Aut (E. Hristova,
L. Subasheva) Spr (E. Hristova, L. Subasheva)

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, Prerequisite: MUSS 313. Spr (E. Hristova,
L. Subasheva)

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, Prerequisite: MUSS 314. Aut (E. Hristova,
L. Subasheva)

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, Prerequisite: MUSS 315. Aut (E. Hristova,
L. Subasheva) Spr (E. Hristova, L. Subasheva)

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, Prerequisite: MUSS 316. Aut (E. Hristova,
L. Subasheva) Spr (E. Hristova, L. Subasheva)
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, Prerequisite: MUSS 317. Spr (E. Hristova,
L. Subasheva)

MUSS 327  Stage Applications VII (Stage)
Credit units: 2. Aut (G. Çeliktas)

MUSS 337  Interpretation of Lied and Oratorio
Credit units: 2. Aut (I. Gospodinova Soykan)

MUSS 341  Italian - Singing I
Credit units: 2. Aut (O. Karaveliğlu)

MUSS 342  Italian - Singing II
Credit units: 2, Prerequisite: MUSS 341. Spr (O. Karaveliğlu)

MUSS 343  Italian - Singing III
Credit units: 2, Prerequisite: MUSS 342. Aut (O. Karaveliğlu)

MUSS 344  Italian - Singing IV
Credit units: 2, Prerequisite: MUSS 343. Spr (O. Karaveliğlu)

MUSS 345  Italian - Singing V
Credit units: 2, Prerequisite: MUSS 344. Aut (O. Karaveliğlu)

MUSS 346  Italian - Singing VI
Credit units: 2, Prerequisite: MUSS 345. Spr (O. Karaveliğlu)

MUSS 351  Piano - Singing I
Credit units: 2. Aut (A. Bagirova)

MUSS 352  Piano - Singing II
Credit units: 2, Prerequisite: MUSS 351. Spr (A. Bagirova)

MUSS 353  Piano - Singing III
Credit units: 2, Prerequisite: MUSS 352. Aut (H. Emrahova)

MUSS 354  Piano - Singing IV
Credit units: 2, Prerequisite: MUSS 353. Aut (Staff) Spr (H. Emrahova)

MUSS 355  Piano - Singing V
Credit units: 2, Prerequisite: MUSS 354. Aut (A. Bagirova, H. Emrahova) Spr (Staff)

MUSS 356  Piano - Singing VI
Credit units: 2, Prerequisite: MUSS 355. Aut (H. Emrahova) Spr (A. Bagirova, H. Emrahova)

MUSS 361  German - Singing I
Credit units: 2.

MUSS 362  German - Singing II
Credit units: 2, 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. Spr (Y. Gürerk)

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, Prerequisite: MUSS 385. Aut (Y. Gürerk) Spr
(Y. Gürerk)

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, Prerequisite: MUSS 107 or MUSS 207 or MUSS 307. Aut (I. Ahmedov, C. Cafer,
U. Rykhalev, Z. Tsitsuashvili, M. Turdiev)
## DEPARTMENT OF PERFORMING ARTS

C. Gökçer (Chair), G. Antadze, T. Nakaşidze, Z. Sikharulidze, S. Skhirtladze.


### CURRICULUM

#### ACTING OPTION

### FIRST YEAR

#### Autumn Semester

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### SECOND YEAR

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#### Spring Semester

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**DIRECTING OPTION**

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**SECOND YEAR**

**Autumn Semester**
- THEA 203 Voice and Speech III .............................................. 3
- THEA 207 Movement III .................................................... 2
- THEA 219 History of Theatre I ........................................... 1
- DIR 203 Directing III .................................................... 5
- DIR 205 Art of Acting III ............................................... 3
- DIR 221 World Literature I (17th-19th Cent.) .......................... 1
- DIR 225 Theory of Drama I ............................................... 1
- ELS 221 Support English I ............................................... 3
- HIST 201 History of Turkish Republic I ................................ 2

**Spring Semester**
- THEA 204 Voice and Speech IV ............................................ 3
- THEA 208 Movement IV .................................................... 2
- THEA 220 History of Theatre II .......................................... 1
- DIR 204 Directing IV .................................................... 5
- DIR 206 Art of Acting IV ................................................ 3
- DIR 222 World Literature II (20th Cent.) ................................ 1
- DIR 226 Theory of Drama II ............................................. 1
- ELS 222 Support English II ............................................. 3
- HIST 202 History of Turkish Republic II .............................. 2

**THIRD YEAR**

**Autumn Semester**
- THEA 303 Voice and Speech V .............................................. 2
- THEA 307 Movement V ...................................................... 2
- THEA 311 Make-up I ....................................................... 1
- THEA 319 History of Theatre III ........................................ 1
- THEA 325 Stage Technique I ............................................. 1
- THEA 327 Dramaturgy III ................................................ 1
- DIR 303 Directing Practice V .......................................... 5
- DIR 305 Art of Acting V ................................................ 3
- DIR 327 Working With Decorator II .................................... 1
- ELS 321 Support English III ............................................ 3

**Spring Semester**
- THEA 304 Voice and Speech VI .......................................... 2
- THEA 308 Movement VI .................................................... 2
- THEA 312 Make-up II ...................................................... 1
- THEA 320 History of Theatre IV ......................................... 1
- THEA 326 Stage Technique II ............................................ 1
- THEA 328 Dramaturgy IV ................................................ 1
- DIR 304 Directing VI ..................................................... 5
- DIR 306 Art of Acting VI ................................................ 3
- DIR 328 Working with Decorator III .................................... 1
- ELS 322 Support English IV ............................................. 3
- PHIL 407 Modern Philosophy ........................................... 3

**FOURTH YEAR**

**Autumn Semester**
- DIR 403 Directing VII ................................................... 7
- DIR 411 Lighting .......................................................... 1
- DIR 427 Working with Decorator IV .................................... 1
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FACULTY OF SCIENCE

Hasan N. Erten, Ph.D., Dean
Atilla Erçelebi, Ph.D., Asst. Dean

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

Kamruddin Ahmed, Visiting Associate Professor
Ph.D., Medicine, Nagasaki University, 1992. Microbial Pathogenesis, Bacterial Adherence, Mucosal Immunity.

Kamil Can Akçalı, Assistant Professor

Murat Alkar, Instructor

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 clifford theory, G-algebras, G-posets.

Gershon Greg Borovsky, Visiting Assistant Professor
Ph.D., Chemistry, Academy of Sciences, Russia, 1985 and Imperial Collage, London, UK. Interfacial electrochemistry of electrochemistry biological substances, fuel cells.

Ceyhun Bulutay, Assistant Professor

Andrzej Cieplak, Visiting Associate Professor

Rengül Çetin-Atalay, Assistant Professor
Salim Çiraci, Professor

Ömer Dağ, Associate Professor

Güneş Davenport, Instructor
Ph.D., Electronics, Birmingham University, 1982. Underwater acoustics, applied mathematics.

Alexandre Degtiarev, Associate 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 Ercelebi, Professor
Ph.D., Condensed Matter Physics, Middle East Technical University, 1980. Polaron and bipolarons, electron-phonon interactions, excitons, low dimensional systems.

Hasan N. Erten, Professor
Ph.D., Nuclear Chemistry, Massachusetts Institute of Technology, 1971. Nuclear and radiochemistry, nuclear fission, nuclear structure and spectroscopy, radioactive waste studies, dating of lake sediments.

Seçil Gergün, Instructor

Aurelian Gheondea, Assistant Professor

Alexandre Goncharov, Assistant Professor

Oğuz Gürseren, 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.

Metin Gürses, Professor
Ph.D., Physics, Middle East Technical University, 1975. General relativity, string theory, integrable systems, partial differential equations.

Dilek Güvenç, Instructor

Tuğrul Hakioğlu, Associate Professor
Margarita Kantcheva, Associate Professor

Azer Kerimov, Associate Professor

Soner Kılıç, Assistant Professor
Ph.D., Chemistry, Middle East Technical University, 1980. Polymer Chemistry, synthesis and characterization, structure/property/performance relationships.

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.

Melharet Kocatepe, Professor

Özlen Konu, Instructor
Ph.D., Biology, Texas Tech University, 1999. Microarray data analysis, gene networks in nicotine’s pharmacological effects, zebrafish genetics.

Igor O. Kulik, Professor
Ph.D., Condensed Matter Physics, Institute for Low Temperature Physics of the Ukrainian SSR Academy of Sciences, 1963. Theory of high-temperature superconductivity, point contact spectroscopy, mesoscopic effects in metals, semiconductors and dielectrics, quantum effects in normal metals.

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.
Ekme\c{s} \c{S}ebek, Professor

Tayfun \c{O}zc\c{e}lik, Associate 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.

\c{U}mit \c{O}zger, Instructor

Gonca \c{O}zkan, Instructor

Mehmet \c{O}zt\c{u}rk, Professor

Ulrike Salzner, Associate Professor

Sinan Serf\c{c}z, 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.

Sergei A. Stepanov, Professor
Ph.D., Physics and Mathematics, Steklov Mathematical Institute, 1970. Algebra, number theory, mathematical logic, algebraic geometry, coding theory, cryptography, complexity theory.

\c{S}efik S\c{u}zer, Professor
Ph.D., Chemistry, University of California, Berkeley, 1976. Electron, ion and photon spectroscopic analyses of gases, solids and surfaces.

Bilal Tanatar, Professor

Uygar H. Taze\c{c}ay, Assistant Professor
Ph.D., Universite 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.

D\c{e}n\c{u}\c{s} Tuncel, Visiting Assistant Professor

Tamer Ya\c{g}ci, Assistant Professor
Ph.D., in Tumor Biology and Immunology from Institute of Oncology, Istanbul University, 1993. Tumor immunosurveillance, immunologic tolerance, tumor specific antigens.

M. \c{C}engiz Yakicer, Instructor
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 Yalabık, Professor

Ergün Yalçın, Assistant Professor
Ph.D., Mathematics, University of Wisconsin-Madison, 1998. Cohomology of groups, finite group actions on topological spaces, geometric structures associated to groups.

İşik Yuluğ, Assistant Professor

Kostyantyn Zheltukhin, Instructor

Natalia Zheltukhina, Instructor
Ph.D., Mathematics, Bilkent University, 2002. Analytic properties of entire functions, zero distributions.

PART-TIME ACADEMIC STAFF

Kaan Güven, Ph.D., Physics, Bilkent University, 1998.
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

FIRST YEAR

**Autumn Semester**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 101</td>
<td>Principles of Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 111</td>
<td>Mechanics</td>
<td>5</td>
</tr>
<tr>
<td>MATH 101*</td>
<td>Calculus I</td>
<td>4</td>
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<tr>
<td>MBG 105</td>
<td>Principles of Biology</td>
<td>3</td>
</tr>
<tr>
<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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**Spring Semester**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CHEM 102</td>
<td>Principles of Chemistry II</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 112</td>
<td>Electricity and Magnetism</td>
<td>5</td>
</tr>
<tr>
<td>MATH 102*</td>
<td>Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>CS 101</td>
<td>Algorithms and Programming I</td>
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</tr>
<tr>
<td>ENG 102</td>
<td>English and Composition II</td>
<td>3</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 115 sequence or MATH 113 - MATH 114 sequence in place of MATH 101 - MATH 102.

SECOND YEAR

**Autumn Semester**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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</tr>
</thead>
<tbody>
<tr>
<td>CHEM 211</td>
<td>Analytical Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 231</td>
<td>Organic Chemistry I</td>
<td>5</td>
</tr>
<tr>
<td>MATH 220</td>
<td>Linear Algebra</td>
<td>3</td>
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<tr>
<td>TURK 101</td>
<td>Turkish I</td>
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<td>Non Technical Elective (1)</td>
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**Spring Semester**

<table>
<thead>
<tr>
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<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CHEM 212</td>
<td>Analytical Chemistry II</td>
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<tr>
<td>CHEM 232</td>
<td>Organic Chemistry II</td>
<td>5</td>
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<tr>
<td>MATH 240</td>
<td>Differential Equations</td>
<td>3</td>
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<tr>
<td>TURK 102</td>
<td>Turkish II</td>
<td>2</td>
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**Autumn Semester**

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<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>CHEM 323</td>
<td>Physical Chemistry I</td>
<td>4</td>
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<tr>
<td>CHEM 341</td>
<td>Inorganic Chemistry I</td>
<td>4</td>
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<tr>
<td>PHYS 325</td>
<td>Quantum Mechanics I</td>
<td>3</td>
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<tr>
<td>HUM 121</td>
<td>The Mediterranean World to 1600</td>
<td>3</td>
</tr>
<tr>
<td>HIST 201</td>
<td>History of Turkish Republic I</td>
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**Spring Semester**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>CHEM 328</td>
<td>Introduction to Quantum Chemistry</td>
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<tr>
<td>CHEM 342</td>
<td>Inorganic Chemistry II</td>
<td>4</td>
</tr>
<tr>
<td>HUM 122</td>
<td>The Mediterranean World and Beyond, 1600 to the Present</td>
<td>3</td>
</tr>
<tr>
<td>HIST 202</td>
<td>History of Turkish Republic II</td>
<td>2</td>
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**Summer Practise**

**FOURTH YEAR**

**Autumn Semester**

<table>
<thead>
<tr>
<th>Course</th>
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<tr>
<td>CHEM 424</td>
<td>Physical Chemistry III</td>
<td>3</td>
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<tr>
<td>CHEM 491</td>
<td>Senior Project I</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Restricted Elective (1)</td>
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<td>Technical Elective (2)</td>
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**Spring Semester**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CHEM 451</td>
<td>Principles of Quantum Chemistry</td>
<td>3</td>
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<tr>
<td>CHEM 461</td>
<td>Biochemistry</td>
<td>3</td>
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<tr>
<td>CHEM 492</td>
<td>Senior Project II</td>
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</tr>
<tr>
<td></td>
<td>Technical Elective (2)</td>
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</tbody>
</table>

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**

Note: Restricted electives are to be chosen from among the courses below.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 452</td>
<td>Group Theory in Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 460</td>
<td>Environmental Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 465</td>
<td>Nuclear Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 470</td>
<td>Polymer Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 472</td>
<td>Industrial Chemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 480</td>
<td>Photochemistry</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 483</td>
<td>Spectroscopy</td>
<td>3</td>
</tr>
</tbody>
</table>

**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 $\alpha$, $\beta$ and $\gamma$ 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. 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. Prerequisite: CHEM 101. 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. Aut (G. G. Borovsky)
CHEM 212  Analytical Chemistry II
Modern instrumental methods of chemical analysis based upon electrochemical and spectroscopic methods. (Laboratory work is obligatory).  Credit units: 4.  Spr (G. G. Borovsky)

CHEM 231  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. (Laboratory work is obligatory.)  Credit units: 5.  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.  Aut (D. Tuncel)

CHEM 233  Principles of Organic Chemistry I

CHEM 234  Principles of Organic Chemistry II
Modern physical organic chemistry with emphasis on mechanistic and spectroscopic methods.  Credit units: 3.  Spr (D. Tuncel)

CHEM 323  Physical Chemistry I
Chemical thermodynamics. Solution and phase equilibria. Electrochemistry. Solid and liquid states. (Laboratory work is obligatory.)  Credit units: 4.  Aut (S. S. Suer)

CHEM 324  Physical Chemistry II
Chemical kinetics. Transport phenomena. Surface chemistry. Chemistry of macromolecules. (Laboratory work is obligatory).  Credit units: 4.  Spr (H. N. Erten)

CHEM 325  Principles of Physical Chemistry I

CHEM 326  Principles of Physical Chemistry II

CHEM 328  Introduction to Quantum Chemistry

CHEM 341  Inorganic Chemistry I

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.  Spr (O. Dog)

CHEM 424  Physical Chemistry III
Photochemistry, spectroscopy and introductory statistical thermodynamics.  Credit units: 3.  Spr (Z. C. Kuruoglu)

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.  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. SQ and CO2 cycles, photochemical smog, aerosols, trace elements in the environment, particle size distribution.  Credit units: 3.
CHEM 465 Nuclear Chemistry
The atomic nucleus. Nuclear masses and stability. Radioactive decay processes, alpha, beta and gamma decay. Structure of nuclei, nuclear models, nuclear forces, fission, fusion. Nuclear processes in geology and astrophysics. Credit units: 3.

CHEM 470 Polymer Chemistry

CHEM 480 Photochemistry
Photophysical and photochemical processes of polyatomic molecules, excited states, energy transfer, lifetime measurements of excited states, determination of mechanism of photochemical reactions. Credit units: 3.

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. Spr (S. Süzer)

CHEM 489 Structure and Reactivity of Organic Compounds
Biomolecules, heterocyclic amines, sulfur compounds, neighboring group participation in S-reactions, polymers, carbenes, 2-D NMR, mass spectrometry, lithium enolates, transition metal organometallic compounds, and pericyclic reactions. Credit units: 3.

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. 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. Spr (S. Süzer)

GRADUATE COURSES

CHEM 501 Seminars in Chemistry I
Current topics from literature will be presented and evaluated. Credit units: 2. Aut (S. Süzer)

CHEM 502 Seminars in Chemistry II
Current topics from literature will be presented and evaluated. Credit units: 2. Spr (S. Süzer)

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.

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.

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. Spr (A. Cieplak)

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.

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.

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. 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.

CHEM 551  Special Topics in Physical Chemistry I  
Credit units: 3.

CHEM 552  Special Topics in Physical Chemistry II  
Credit units: 3.

CHEM 554  Special Topics in Physical Chemistry IV  
Credit units: 3.

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.

CHEM 561  Special Topics in Inorganic Chemistry I  
Credit units: 3.

CHEM 562  Special Topics in Inorganic Chemistry II  
Credit units: 3.

CHEM 571  Special Topics in Organic Chemistry I  
Credit units: 3.

CHEM 572  Special Topics in Organic Chemistry II  
Credit units: 3.

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. Aut (S. Kilic)

CHEM 574  Polymer Chemistry II  
Measurement of molecular weight, thermal and mechanical analysis, morphology, crystallinity, rheology, polymer structure-property-performance relationship. Credit units: 3.
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, photoelectrochemistry, supramolecular photochemistry, femtochemistry, laser-tissue interactions, photodynamic therapy, fluorescence imaging. Credit units: 3.

CHEM 581  Special Topics in Analytical Chemistry I
Credit units: 3.

CHEM 582  Special Topics in Analytical Chemistry II
Credit units: 3.

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.

CHEM 589  Biomolecules and Other Advanced Topics
Biomolecules, heterocyclic amines, sulfur compounds, neighboring group participation in $S_n$ reactions, polymers, carbenes, 2-D NMR, mass spectrometry, lithium enolates, transition metal organometallic compounds, and pericyclic reactions. Credit units: 3.

CHEM 599  Master's Thesis
Credit units: None. Aut (Ş. Süzer) Spr (Ş. Süzer)

CHEM 699  Ph.D. Dissertation
Credit units: None. Aut (Ş. Süzer) Spr (Ş. Süzer)
DEPARTMENT OF MATHEMATICS


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

<table>
<thead>
<tr>
<th>Autumn Semester</th>
<th>Spring Semester</th>
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<tbody>
<tr>
<td>MATH 113 Single Variable Calculus</td>
<td>MATH 114 Multi Variable Calculus</td>
</tr>
<tr>
<td>MATH 123 Abstract Mathematics I</td>
<td>MATH 124 Abstract Mathematics II</td>
</tr>
<tr>
<td>PHYS 101 General Physics I</td>
<td>PHYS 102 General Physics II</td>
</tr>
<tr>
<td>GE 100 Orientation</td>
<td>ENG 101 English and Composition I</td>
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<tr>
<td>ENG 101 English and Composition I</td>
<td>ENG 102 English and Composition II</td>
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<tr>
<td>TURK 101 Turkish I</td>
<td>TURK 102 Turkish II</td>
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SECOND YEAR

<table>
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<tr>
<th>Autumn Semester</th>
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<tbody>
<tr>
<td>MATH 213 Advanced Calculus I</td>
<td>MATH 202 Complex Analysis</td>
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<tr>
<td>MATH 223 Linear Algebra I</td>
<td>MATH 214 Advanced Calculus II</td>
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<tr>
<td>MATH 240 Differential Equations</td>
<td>MATH 224 Linear Algebra II</td>
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<td>MBG 105 Principles of Biology</td>
<td>MBG 105 Principles of Biology</td>
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<td>CS 111 Introduction to Computing in Engineering and Science</td>
<td>CS 112 Introduction to Object-Oriented Programming</td>
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THIRD YEAR

<table>
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<tr>
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<tbody>
<tr>
<td>MATH 302 Complex Analysis II</td>
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<tr>
<td>MATH 313 Real Analysis I</td>
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</table>
MATH 323  Algebra I ................................................................. 3
MATH 345  Differential Geometry I ........................................ 3
HUM 121  The Mediterranean World to 1600 .......................... 3

Spring Semester
MATH 314  Real Analysis II .................................................. 3
MATH 324  Algebra II ............................................................ 3
MATH 346  Differential Geometry II ....................................... 3
HUM 122  The Mediterranean World and Beyond, 1600 to the Present 3
Restricted Elective (1) ......................................................... 3
Technical Elective (1) ......................................................... 3

Autumn Semester
MATH 443  Partial Differential Equations .............................. 3
MATH 453  Algebraic Number Theory .................................... 3
MATH 491  Senior Project I .................................................... 3
Restricted Elective (1) ......................................................... 3
Non Technical Elective (1) ................................................... 3

Spring Semester
MATH 414  Functional Analysis ............................................ 3
MATH 431  Introduction to Algebraic Geometry ....................... 3
MATH 492  Senior Project II .................................................. 3
Restricted Elective (1) ......................................................... 3
Non Technical Elective (1) ................................................... 3

RESTRICTED ELECTIVE COURSES
MATH 250  Introduction to Probability .................................. 3
MATH 260  Introduction to Statistics .................................... 3
MATH 262  Statistical Methodology ..................................... 3
MATH 300  A Concise History of Mathematics ......................... 3
MATH 310  Topology ............................................................ 3
MATH 315  Fourier Analysis ................................................ 3
MATH 316  Orthogonal Functions .......................................... 3
MATH 325  Representation Theory ...................................... 3
MATH 333  Exterior Calculus ............................................... 3
MATH 336  Polynomial Algebra ........................................... 3
MATH 337  Introduction to Soliton Theory ............................. 3
MATH 415  Analysis of Differentiable Functions ...................... 3
MATH 417  Introduction to Number Theory ............................ 3
MATH 418  Diophantine Approximations ................................ 3

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, analytic 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
MATH 503 Complex Analysis I ............................................. 3
MATH 523 Algebra I .............................................................. 3
MATH 543 Methods of Applied Mathematics I .......................... 3

Spring Semester
Restricted Elective(1) ....................................................... 3
Mathematical Elective(1) ...................................................... 3

Doctor of Philosophy in Mathematics

Admission: Applicants must have an M.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
Mathematical Elective(2) ................................................... 6

Spring Semester
Restricted Elective(3) ....................................................... 9

SECOND YEAR

Autumn Semester
Mathematical Elective(1) ................................................... 3

Spring Semester
Mathematical Elective(1) ................................................... 3

RESTRICTED ELECTIVES

MATH 502 Real Analysis II .................................................. 3
MATH 504 Complex Analysis II ........................................... 3
MATH 524 Algebra II .......................................................... 3
MATH 544 Methods of Applied Mathematics II ........................ 3

MATH Electives: All math courses with codes 500’s and 600’s.
MATH 101 Calculus I

MATH 102 Calculus II
Sequences and series of numbers, power series, Taylor series. Quadratic curves, polar coordinates. Analytic geometry in $\mathbb{R}^3$, 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, Prerequisite: MATH 101 or MATH 113; MATH 101. Spr (O. Tekman, K. Zheltukhin)

MATH 103 Introductory Mathematics

MATH 105 Introduction to Calculus I

MATH 106 Introduction to Calculus II

MATH 107 Elements of Business Mathematics

MATH 108 Elementary Business Statistics

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.

MATH 110 Discrete Mathematics

MATH 111 Intermediate Calculus I
MATH 112  Intermediate Calculus II

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 \( \mathbb{R} \) 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. Prerequisite: MATH 101 or MATH 113. Spr (M. Kocatepe)

MATH 115  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. Aut (A. Kerimov)

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. Prerequisite: MATH 101. Spr (N. Zheltukhina)

MATH 202  Complex Analysis
Theory of holomorphic functions of a single variable, complex integration and residue theory, maximum modulus principle. Credit units: 3. Prerequisite: MATH 114 or MATH 102. Spr (I. V. Ostrovskii)

MATH 206  Complex Calculus and Transform Techniques
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.

MATH 213 Advanced Calculus I
Differentiation of functions of several real variables and related topics. Applications to geometry. Credit units: 3, 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, Prerequisite: MATH 213. Spr (A. Gheondea)

MATH 220 Linear Algebra

MATH 223 Linear Algebra I
Vector spaces, linear transformations. Eigenspaces (generalized eigenspaces), determinants, canonical forms, Jordan forms. Credit units: 3. Aut (L. J. Barker)

MATH 224 Linear Algebra II
Inner product spaces, bilinear forms, quadratic forms, adjoint operators, multilinear forms, tensor and exterior products. Credit units: 3, Prerequisite: MATH 223. Spr (L. J. Barker)

MATH 225 Linear Algebra and Differential Equations

MATH 227 Introduction to Linear Algebra
Introduction to matrices, basic definitions and properties. Linear equations; inverse and rank of a matrix; existence and classification of solutions; Gaussian elimination. Characteristic equation of a matrix; eigenvalues, eigenvectors. Numerical techniques. Applications. Credit units: 3, Prerequisite: MATH 106. Autİ, Özger) Spr (Y. Kurtulmaz, Ö. Oral)

MATH 240 Differential Equations

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, Prerequisite: MATH 101 or MATH 111; MATH 102 or MATH 114. Aut (D. Güvenç, N. Zheltukhina)

MATH 253 Introduction to Number Theory
Divisibility, congruences, quadratic reciprocity, arithmetical functions, irrational numbers, simple continued fractions, Diophantine equations. Credit units: 3. Spr (A. Deglarev)

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.

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, Prerequisite: MATH 250. Spr (D. G"uvenç)

MATH 262 Statistical Methodology
Organization and description of data. Basic concepts of probability. Binomial, Poisson distributions. The normal distribution. X², 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, Spr (D. G"uvenç)

MATH 264 Statistics for Social Sciences

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.

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. Aut (F. Lemmermeyer)

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. Spr (E. Yalcın)

MATH 313 Real Analysis I

MATH 314 Real Analysis II

MATH 323 Algebra I
Groups, subgroups, normal subgroups and quotient groups. Homomorphisms and automorphisms. Cayley's theorem, permutation groups, symmetry. Sylow's theorems and classification of finite groups of small order using Sylow's theorems. Structure of finite abelian groups. Classical linear groups. Credit units: 3. Aut (L. J. Barker)

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, Prerequisite: MATH 323. Spr (L. J. Barker)

MATH 345 Differential Geometry I
Euclidean spaces and differential forms, frames, calculus on surfaces. Shape operators. Gaussian and mean curvatures. Credit units: 3, Prerequisite: MATH 345. Aut (A. Klyachko)

MATH 346 Differential Geometry II
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.

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.

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.

MATH 431  Introduction to Algebraic Geometry

MATH 443  Partial Differential Equations
Pfaffian systems, linear and nonlinear PDE's of first order. Second order PDE, characteristic curves and characteristic equations. Laplace equation, wave equation, heat equation. Method of integral transforms, Fourier series, Green's function. Credit units: 3. Aut (U. Mungan)

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. Aut (M. Gurses)

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. Aut (M. Gurses) Spr (E. Yalcin)

GRADUATE COURSES

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, Jordan-Holder theorem, polynomial rings. Noetherian rings, field extensions, Galois theory, extensions of rings, representations of finite groups. Credit units: 3. Aut (S. A. Stepanov)

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. Spr (A. Degtiarev)

MATH 525 Group Representations

MATH 528 Invariant Theory

MATH 534 Differential Geometry II
Differential manifolds, multilinear algebra, Exterior Differential Calculus, Connections, Riemannian Geometry, Lie groups and Moving frames, Complex manifolds, Finsler Geometry. Please see also the "Course Syllabus" below. Credit units: 3.

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. Aut (M. Gürses)

MATH 550 Probability and Statistics

MATH 556 Codes on Algebraic Curves

MATH 581 Topics in Nonlinear Partial Differential Equations I
Credit units: 3. Prerequisite: Consent of the Advisor.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Units</th>
<th>Prerequisite</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 583</td>
<td>Topics in Mathematical Physics I</td>
<td>3</td>
<td>Consent of the Instructor.</td>
</tr>
<tr>
<td>MATH 584</td>
<td>Topics in Mathematical Physics II</td>
<td>3</td>
<td>Consent of the Instructor.</td>
</tr>
<tr>
<td>MATH 585</td>
<td>Topics in Ordinary Differential Equations I</td>
<td>3</td>
<td>Consent of the Instructor.</td>
</tr>
<tr>
<td>MATH 599</td>
<td>Master’s Thesis</td>
<td>None</td>
<td>Aut (M. Kocatepe) Spr (M. Kocatepe)</td>
</tr>
<tr>
<td>MATH 603</td>
<td>Value Distribution Theory</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>MATH 604</td>
<td>Entire Functions</td>
<td>3</td>
<td></td>
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<tr>
<td>MATH 605</td>
<td>Topics in Functional Analysis I</td>
<td>3</td>
<td>Consent of the Instructor.</td>
</tr>
<tr>
<td>MATH 611</td>
<td>Algebraic Topology I</td>
<td>3</td>
<td>Consent of the Instructor.</td>
</tr>
<tr>
<td>MATH 618</td>
<td>Topics in Algebraic Topology II</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>MATH 624</td>
<td>Compact Lie Groups</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>MATH 633</td>
<td>Algebraic Geometry I</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>MATH 650</td>
<td>Topics in Probability Theory</td>
<td>3</td>
<td>Consent of the Instructor.</td>
</tr>
<tr>
<td>MATH 654</td>
<td>Analytic Number Theory</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>MATH 699</td>
<td>Ph.D. Dissertation</td>
<td>None</td>
<td>Aut (M. Kocatepe) Spr (M. Kocatepe)</td>
</tr>
</tbody>
</table>

**MATH 603 Value Distribution Theory**

**MATH 604 Entire Functions**

**MATH 618 Topics in Algebraic Topology II**

**MATH 624 Compact Lie Groups**

**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.*

**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.*
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

Autumn Semester
MBG 101  Biology I ............................................................... 3
CHEM 101 Principles of Chemistry I ........................................ 4
MATH 101* Calculus I .............................................................. 4
GE 100  Orientation ................................................................. 1
ENG 101 English and Composition I ........................................ 3
TURK 101 Turkish I ................................................................. 2

CHEM 233 Principles of Organic Chemistry I ................................ 3
CS 111 Introduction to Computing in Engineering and Science ........... 3
HIST 201 History of Turkish Republic I ...................................... 2

* 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 115 sequence or MATH 113 - MATH 114 sequence in place of MATH 101 - MATH 102.

SECOND YEAR

Autumn Semester
MBG 210  Genetics ................................................................. 4
PHYS 101  General Physics I ..................................................... 4
CHEM 233 Principles of Organic Chemistry I ................................ 3
CS 111  Introduction to Computing in Engineering and Science ........... 3
HIST 201 History of Turkish Republic I ...................................... 2

Spring Semester
MBG 223  Molecular Genetics ..................................................... 4
PHYS 102  General Physics II ..................................................... 4
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. Aut (K. C. Akça)'kalı)

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. Prerequisite: MBG 101. Spr (K. C. Akça)'kalı)

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.

MBG 105 Principles of Biology
This course is for students from the Physics 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. Aut (O. Ko'nu)
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.  
Aut (K. Ahmed, T. Özcçelik) Spr (K. Ahmed)

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.  
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.  
Spr (U. H. Tazebay)

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.  
Aut (R. Çetin-Atalay)

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)  
Credit units: 4.  
Spr (M. Öztürk)

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.  
Credit units: 3.  
Aut (T. Yüçi)

MBG 311  Biochemistry I
Introductory biochemistry, bioenergetics, protein structure, protein purification and characterization, enzymatic activity, kinetics, allosteroy, vitamins and coenzymes.  
Credit units: 4.  
Aut (T. Yüçi)

MBG 312  Biochemistry II
Introduction to intermediary metabolism, polysaccharides, energy storage, lipids and membrane structure nucleic acid structure and nucleotide metabolism.  
Credit units: 3. Prerequisite: consent of the instructor.  
Spr (T. Yüçi)

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.

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. Subjects such as RNA processing, protein processing, viruses, yeast molecular genetics are covered. (Laboratory work is obligatory)  
Credit units: 4.  
Aut (I. Yuluğ)

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.  
Aut (R. Çetin-Atalay)

MBG 338  Microbiology
Structure, growth and physiology of microorganisms, classification of bacteria, diverse activities of bacteria, viruses, microbial pathogenicity, exploitation of microorganisms by man.  
Credit units: 4.  
Spr (K. Ahmed)

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.

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.
MBG 416  Science and Ethics
Scientific concepts, history of science, the birth of modern science, science and society, ethics of science. Credit units: 3. Aut (U. H. Tazebay)

MBG 418  Genomics

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. Aut (M. C. Yakıcıer)

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.

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. Aut (T. Yagcı)

MBG 471  Membrane Biology
Membrane composition and structure in living organisms, mechanisms of membrane transport, structure-function relationships in transporter proteins, post-translational and transcriptional regulation of transporters in bacteria, in lower eukaryotes, and in man. Credit units: 3.

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.

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. 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.

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.

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.

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. Spr (T. Özcölük)

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. Spr (M. Öztürk)
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. Aut (İ. Yulğ)

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. Spr (İ. Yulğ)

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. Spr (K. C. Akçalı)

MBG 503 Advanced Molecular Biology
Chromosomal DNA and its packaging, higher-order organization of chromosomes, replication, recombination, control of gene expression, signaling pathways, cell cycle. Obligatory for master students. Credit units: 3. Aut (İ. Yulğ)

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. Aut (U. H. Tazebay)

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. Aut (M. C. Yıkıcıer)

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. Spr (M. C. Yıkıcıer)

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. Spr (M. C. Yıkıcıer)

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.

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.

MBG 523 Recent Developments in Molecular Biology
Latest developments and emerging issues in molecular biology including nucleosome and chromatin structure, RNA polymerase II Holozyme 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.

MBG 599 Master’s Thesis
Credit units: None. 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. Spr (T. Özçelik)

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. Aut (T. Y açı)

MBG 603 Molecular Bases of Cancer
Cancer as a multi gene disease, oncogenes, tumor suppressor genes, mutator genes, gene therapy of cancer, germ-line and somatic mutations and cancer, genes involved in abnormal proliferation and metastasic behavior of cancer cells, immune response to cancer, familial cancers, virus-induced cancers. Credit units: 3. Spr (M. Öztürk)
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.

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.

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. Aut (M. C. Yakıcıer)

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. Spr (M. C. Yakıcıer)

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.

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.

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.

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.

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.

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.

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.

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.

MBG 699  Ph.D. Dissertation
Credit units: None. Aut (Staff) Spr (Staff)
DEPARTMENT OF PHYSICS


Part-time: K. Güven.

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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<tr>
<th>Autumn Semester</th>
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<td>PHYS 111 Mechanics</td>
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<td>CHEM 101 Principles of Chemistry I</td>
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<td>MATH 113 Single Variable Calculus</td>
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<td>MBG 105 Principles of Biology</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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<td>Spring Semester</td>
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<td>PHYS 112 Electricity and Magnetism</td>
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<td>PHYS 170 Programming for Physicists</td>
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SECOND YEAR

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<td>PHYS 205 Classical Mechanics I</td>
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<td>PHYS 226 Quantum Physics</td>
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<td>MATH 220 Linear Algebra</td>
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<td>MATH 240 Differential Equations</td>
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<td>HIST 201 History of Turkish Republic I</td>
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<td>TURK 101 Turkish I</td>
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<td>PHYS 206 Classical Mechanics II</td>
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<td>PHYS 230 Quantum Mechanics Laboratory</td>
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<td>PHYS 243 Methods of Mathematical Physics</td>
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<td>MATH 202 Complex Analysis</td>
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<td>HIST 202 History of Turkish Republic II</td>
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<td>TURK 102 Turkish II</td>
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THIRD YEAR

**Autumn Semester**
- PHYS 315 Electromagnetic Theory I ........................................... 3
- PHYS 325 Quantum Mechanics I ................................................ 3
- PHYS 371 Numerical Methods in Physics .................................... 3
- PHYS 473 Methods of Experimental Physics ................................ 3
- HUM 121 The Mediterranean World to 1600 ................................. 3

**Spring Semester**
- PHYS 316 Electromagnetic Theory II ......................................... 3
- PHYS 326 Quantum Mechanics II ............................................... 3
- PHYS 334 Statistical Physics ................................................... 3
- HUM 122 The Mediterranean World and Beyond, 1600 to the Present 3
- Restricted Technical Elective (1) ............................................ 3

FOURTH YEAR

**Autumn Semester**
- PHYS 415 Optics .......................................................................... 4
- PHYS 445 Condensed Matter Physics I ......................................... 3
- PHYS 491 Senior Project I ......................................................... 3
- Non Technical Elective (1) ....................................................... 3
- Technical Elective (1) .............................................................. 3

**Spring Semester**
- PHYS 446 Condensed Matter Physics II .................................... 3
- PHYS 453 Nuclear and Particle Physics ....................................... 3
- Restricted Elective (1) ............................................................ 3
- Technical Elective (1) ............................................................ 3

RESTRICTED ELECTIVES
- PHYS 438 Atomic and Molecular Physics ................................... 3
- PHYS 440 Introduction to Quantum Transport Phenomena in Solids 3
- PHYS 442 Introduction to Nonlinear and Quantum Optics .......... 3
- PHYS 447 Optical Properties of Solids ...................................... 3
- PHYS 448 Magnetic Properties of Solids .................................... 3
- PHYS 449 Group Theory .......................................................... 3
- PHYS 451 Introduction to Many Body Theory .............................. 3
- PHYS 452 Elementary Excitations in Solids ................................. 3
- PHYS 475 Semiconductor Device Physics ................................... 3
- PHYS 476 Quantum Electronics ................................................ 3
- PHYS 480 Field Theory .............................................................. 3
- PHYS 481 Theory of Relativity ................................................... 3
- PHYS 482 Elementary Particles ................................................... 3

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. Aut (A. Aydınlı, C. Bulutay, S. Çiraci, R. Ellialtıoğlu, A. Ercelebi, T. Hakioglu, I. O. Kulik, A. Oral, A. Shumovsky, 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. Prerequisite: PHYS 101 or MATH 101; MATH 101 or MATH 113.

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. Aut (E. Özbay)

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.

PHYS 170 Programming for Physicists
Introductory programming concepts, number systems, expressions, basic data structures, algorithmic processes; applications to numerical and non-numerical problems using Fortran. Solutions to physical problems will be stressed. Credit units: 3.

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.

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. Aut (T. Hakioğlu)

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.

PHYS 226 Quantum Physics
Old quantum theory; elementary introduction to quantum physics; Schrödinger equation, uncertainty principle, correspondence principle; one dimensional problems; angular momentum; hydrogen atom. Credit units: 3. Aut (C. Yalabık)

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.

PHYS 243 Methods of Mathematical Physics
Vector analysis, Fourier analysis; Sturm-Liouville theory; special functions. Credit units: 4.

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 Ampère's laws, the field vector potential; energy in the magnetic field; magnetostatics of materials; Faraday's law; inductance. Credit units: 3. Aut (A. Erciyesli)

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. Aut (O. Gülseren)

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.

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.

PHYS 371 Numerical Methods in Physics
Solutions to linear systems of equations; roots of polynomials and other nonlinear functions; statistical applications; determinants, eigenvalues, and eigenvectors, solutions to differential equations; applications of FFT; utilization of scientific software packages. (Emphasis will be placed on physical applications.) Credit units: 3. 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.

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. Aut (A. Aydınlı)

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. Aut (M. Ö. Oktel)
PHYS 446  Condensed Matter Physics II
Dielectric properties; diamagnetism and paramagnetism; ferromagnetism and anti-ferromagnetism; magnetic resonance; electron-phonon interactions; super-conductivity; optical properties; liquid metals. Credit units: 3.

PHYS 449  Group Theory
Abstract group theory; theory of group representations; physical applications of group theory; full rotation groups and angular momentum; applications in molecular and solid state physics. Credit units: 3.

PHYS 451  Introduction to Many Body Theory
Interacting systems; Green's function of the single particle, Schrödinger equation; second quantization; quasiparticles; many-body Green's functions; self-energy and perturbation series; diagrammatic methods; temperature-dependent Green's function. Credit units: 3. 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.

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.

PHYS 465  Semiconductor Device Physics

PHYS 473  Methods of Experimental Physics
Principles of experimentation; data collection and statistical analysis; chi-square test; least square fitting; laboratory 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. Aut (R. Ellialtıoğlu)

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.

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. Aut (I. O. Kulik)

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.

GRADUATE COURSES

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.

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.

PHYS 545  Solid State Theory I

PHYS 546  Solid State Theory II

PHYS 547  Advances in Condensed Matter Physics I

PHYS 550  Physics of Semiconductor Devices

PHYS 551  Analytical Mechanics

PHYS 552  Statistical Mechanics
Distribution functions; the concept of entropy, the H-function; classical statistical mechanics; ensembles, partition functions. The equipartition theorem. Quantum statistical mechanics: partition function, Fermi-Dirac and Bose-Einstein distributions. Credit units: 3. Aut (B. Tanatar)

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.

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.

PHYS 561  Special Topics in Condensed Matter Physics I
Credit units: 3. Aut (M. Ö. Oktel)

PHYS 562  Special Topics in Condensed Matter Physics II
Credit units: 3.

PHYS 565  Special Topics in Condensed Matter Physics III
Credit units: 3. Aut (S. Çırıcı)

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.

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.

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 reflection, recombination,
excitonic recombination band-to-band and free-to-bound recombination, donor acceptor pair recombination, modulation spectrosopies, effects of quantum confinement on electronic and vibrational properties, phonons in superlattices, folded acoustic modes, confined optical modes. Credit units: 3. Aut (C. Bulutay)

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 waveguides 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 waveguide grating, A/D multiplexer. Credit units: 3.

PHYS 580 Experimental Methods in Applied Physics

PHYS 591 Seminar Course
This is a graduate (MS and PhD) seminar course. The instructor and students meet once a week for presentations and discussions. Topics of presentations are chosen by the mutual consent of the instructor and the students. Credit units: None. Aut (A. Shumovsky)

PHYS 599 Master's Thesis
Credit units: None. Aut (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.

PHYS 699 Ph.D. Dissertation
Credit units: None. Aut (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

Frederic Abidos, Instructor
M.A., French as a Foreign Language, University of Toulouse, 2002.

Şebnem Akçapar, Instructor

Fahrettin Arslan, Instructor
Ph.D., Hacettepe University, French Language and Literature, 1968.

Mehmet Ali Avcı, Instructor
Ph.D., French Language and Literature, Hacettepe University, 1994.

Aylın Bayrakçeken-Kesim, Instructor
Ph.D., English Language and Literature, Hacettepe University, 1996.

Barbara Blackwell Gülen, Instructor
M.S., English Language Teaching, Middle East Technical University, 1987.

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Cenk Cangır, Instructor
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Anne Chassaing, Instructor

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B.A., French Language and Literature, Hacettepe University, 1981.

Florence Fissot-Avcı, 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.
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Mümzat Kaya, Instructor
Ph.D., French Language and Literature, Hacettepe University, 1998.

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Şirin Okyayuz Yener, Instructor
Ph.D., Department of Linguistics, Hacettepe University, 2001.

Simla Ongan Kocaoğlu, Instructor

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Yasemin Tanbi, Instructor
B.A., French-Turkish Translation and Interpretation, Hacettepe University, 2001.

Tabel Taşkıran, Instructor
B.A., French Language and Literature, Hacettepe University, 1984.

Mine Tüzüner, Instructor
B.A., English Language and Literature, Ankara University, 1966.

Yasemin Utku, Instructor
M.A., European Studies, University of Strasbourg, 1992.

Ayşe Yumuk, Assistant Professor
Ph.D., Educational Sciences, Middle East Technical University, 1998.

PART-TIME ACADEMIC STAFF

Zeynep Akıncı, Institut des Hautes Etudes Europeennes, Strasbourg.
Şenol Babuşcu, Ph.D., Management, Hacettepe University, 1997.
Eser Çetinsoz-Erdoğan, B.A., Computer Aided Accounting, Bilkent University, 1999.
Sabit Durlanık, Master Degree on MS Finance, State University of New York, USA, 1999.
Abidin Emre, Ph.D., French Language and Literature, Hacettepe University, 1983.
Ali İhsan Gelberi, M.A., Business Management, St.John Fisher Collage Graduate School of Management Rochester, N.Y., U.S.A.
Özkan Göksu, Ph.D., French Language and Literature, Hacettepe University, 1979.
Adnan Kahiloğulları, B.A., Translation, University of Montreal.
Aslan Kaya, M.S., Accounting, University of Illinois, 1998.
Dilek Öney, B.A., Public Administration, Middle East Technical University, 1961.
Sevim Sönmez, Ph.D., French Language and Literature, Hacettepe University, 1996.
Erdoğan Topuz, Ph.D., Applied Management and Decision Sciences, Walden University, 1999.
ACCOUNTING INFORMATION SYSTEMS

O. Güvenen (Chair), M. A. Avci, M. Karagülle, M. Kaya, A. Yumuk.


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

**Autumn Semester**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ACC 151</td>
<td>Principles of Accounting I</td>
<td>3</td>
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<tr>
<td>ACC 171</td>
<td>Computer Programming I</td>
<td>3</td>
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<tr>
<td>MATH 107</td>
<td>Elements of Business Mathematics</td>
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<td>GE 100</td>
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<tr>
<td>BF 101</td>
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<td>BF 131</td>
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**Spring Semester**

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<thead>
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<th>Course</th>
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<tr>
<td>ACC 152</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>
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<tr>
<td>BF 102</td>
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<tr>
<td>TURK 102</td>
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## SECOND YEAR

### Autumn Semester
- ACC 201 French Cultural Issues ........................................... 3
- BF 161 Economics I .................................................................. 3
- BF 203 Anglo/American Life and Culture II ................................. 3
- BF 205 English-Turkish Translation ........................................... 3
- BF 231 French for Business and Professional Use I ....................... 3
- HIST 201 History of Turkish Republic I ..................................... 2

### Spring Semester
- ACC 256 Information Systems Development ............................... 3
- ACC 292 Summer Period Project ............................................... 3
- BF 162 Economics II .................................................................. 3
- BF 202 English for Business and Professional Use I ....................... 3
- BF 206 French-Turkish Translation ............................................. 3
- BF 236 Commercial French .................................................... 3
- HIST 202 History of Turkish Republic II ..................................... 2

## THIRD YEAR

### Autumn Semester
- ACC 351 Financial Accounting .................................................. 3
- ACC 353 Computerized Accounting Applications .......................... 3
- BF 301 English for Business and Professional Use II ....................... 3
- BF 305 Business French Translation and Interpretation (French-Turkish) 3
- BF 331 French for Business and Professional Use II ....................... 3

### Spring Semester
- ACC 352 Managerial Accounting ................................................ 3
- BF 302 English for Business and Professional Use III ...................... 3
- BF 306 Business English Translation and Interpretation (English-Turkish) 3
- BF 332 French for Business and Professional Use III ....................... 3
- BF 382 Behavioral Science ..................................................... 3
- BF 390 Summer Period Project .................................................... 3

## FOURTH YEAR

### Autumn Semester
- ACC 453 Accounting Information Systems .................................. 3
- BF 403 English-French Translation ............................................. 3
- BF 461 Corporate Finance ..................................................... 3
- BF 483 Customer Services: Marketing and the Competitive Environment 3
- Restricted Elective (1) ............................................................ 3

### Spring Semester
- ACC 454 Auditing ................................................................. 3
- ACC 456 Advanced Financial and Managerial Accounting Applications 3
- BF 404 French-English Translation ............................................. 3
- BF 462 Investments ............................................................... 3
- Restricted Elective (1) ............................................................ 3

### ELECTIVES
- ACC 471 European Union Integration (in French) ......................... 3
- ACC 474 Management Information Systems (in French) .................. 3
- BF 362 Banking Operations ..................................................... 3
- BF 363 Introduction to Banking Law .......................................... 3
- BF 411 Critical Approach to French Literature .............................. 3
- BF 466 Risk and Insurance ..................................................... 3
- BF 470 Political Economy of the European Union .......................... 3
- BF 471 Business Ethics ......................................................... 3
- BF 472 Business Law ............................................................. 3
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. Aut (S. Durlanık)*

**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, Prerequisite: ACC 151. Spr (S. Durlanık)*

**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. Aut (H. Hüstünel)*

**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. Prerequisite: ACC 171. Spr (H. Hüstünel)*

**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. Aut (F. Fissot-Avcı)*

**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, Spr (Staff)*

**ACC 292 Summer Period Project**
One-month training period. (see www.bilkent.edu.tr/~sal) *Credit units: None. 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, Prerequisite: BF 251 and BF 252. 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, Prerequisite: ACC 351. Spr (K. Tiritoğlu)*

**ACC 353 Computerized Accounting Applications**

**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, Prerequisite: BF 251 and BF 252. Aut (B. Balç)*

**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, Prerequisite: ACC 352. Spr (B. Balç)*
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. Prerequisite: ACC 351 and ACC 352. Spr (Staff)

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. 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. Spr (O. Güvenen)
BANKING AND FINANCE

N. Demir (Chair), Ş. Akçapar, A. Bayrakçeken-Kesim, E. Maloney, Ş. Okyayuz Yener, V. Orenga, 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 one-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
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<td>Anglo/American Life and Culture I</td>
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Spring Semester

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<td>BF 134</td>
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## SECOND YEAR

### Autumn Semester
- BF 203 Anglo/American Life and Culture II ............................................. 3
- BF 205 English-Turkish Translation ......................................................... 3
- BF 231 French for Business and Professional Use I ........................................ 3
- BF 251 Principles of Accounting I ........................................................... 3
- BF 273 Computer Programming and Applications I ......................................... 3
- HIST 201 History of Turkish Republic I ..................................................... 2

### Spring Semester
- BF 202 English for Business and Professional Use I ...................................... 3
- BF 206 French-Turkish Translation ............................................................... 3
- BF 236 Commercial French ........................................................................... 3
- BF 252 Principles of Accounting II .............................................................. 3
- BF 274 Computer Programming and Applications II ....................................... 3
- BF 290 Summer Period Project ................................................................. -
- HIST 202 History of Turkish Republic II ..................................................... 2

## THIRD YEAR

### Autumn Semester
- BF 301 English for Business and Professional Use II ..................................... 3
- BF 305 Business French Translation and Interpretation (French-Turkish) ....... 3
- BF 331 French for Business and Professional Use II ....................................... 3
- BF 363 Introduction to Banking Law ............................................................ 3
- BF 365 Elements of Money and Banking ..................................................... 3

### Spring Semester
- BF 302 English for Business and Professional Use III .................................... 3
- BF 306 Business English Translation and Interpretation (English-Turkish) .... 3
- BF 332 French for Business and Professional Use III ..................................... 3
- BF 362 Banking Operations .......................................................................... 3
- BF 382 Behavioral Science ........................................................................... 3
- BF 390 Summer Period Project ..................................................................... -

## FOURTH YEAR

### Autumn Semester
- BF 403 English-French Translation ............................................................ 3
- BF 461 Corporate Finance ............................................................................. 3
- BF 463 Monetary and Financial Systems ..................................................... 3
- BF 483 Customer Services: Marketing and the Competitive Environment ...... 3
- Restricted Elective (1) .................................................................................. 3

### Spring Semester
- BF 404 French-English Translation ............................................................ 3
- BF 462 Investments ....................................................................................... 3
- BF 464 International Finance ......................................................................... 3
- BF 476 Computerized Financial Analysis ................................................... 3
- Restricted Elective (1) .................................................................................. 3

## ELECTIVES
- BF 409 Communication and Reporting ....................................................... 3
- BF 411 Critical Approach to French Literature ............................................ 3
- BF 466 Risk and Insurance .......................................................................... 3
- BF 468 Finance of International Trade ....................................................... 3
- BF 470 Political Economy of the European Union ....................................... 3
- BF 471 Business Ethics ................................................................................. 3
- BF 472 Business Law ................................................................................... 3
- MAN 403 International Business .................................................................. 3
- MAN 434 Advertising Management .......................................................... 3
ECON 331  International Economics I  3
ECON 461  Law I  3
ACC 351  Financial Accounting  3
ACC 352  Managerial Accounting  3
ACC 453  Accounting Information Systems  3
ACC 454  Auditing  3
ACC 456  Advanced Financial and Managerial Accounting Applications  3
ACC 471  European Union Integration (in French)  3
ACC 474  Management Information Systems (in French)  3
TRIN 371  Computer Literacy II  3
TRIN 473  Turkish Diction  1

At least two elective courses should be taken from the elective courses list offered by BF (Banking/Finance) or ACC (Accounting) departments. Instruction is in English and French.

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. Aut (A. Bayракчеень-Кесим, M. Karagülle, M. Tüzüner)

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. Spr (B. Blackwell Gülên, M. Karagülle, M. Tüzüner)

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. 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. Aut (M. A. Avcı, A. Erkoç, 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. Spr (M. A. Avcı, A. Erkoç, 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. Spr (A. Chassaing, F. Fissol-Avcı, 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. Aut (A. Aygünës, U. Korum)

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. Spr (Ş. Okuyuzu Yener)

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. Aut (M. Karagülle, Ş. Okuyuzu 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. Aut (A. Yumuk)

BF 206  French-Turkish Translation
Methods and techniques of translation. Translation based on texts of a general nature. Credit units: 3. Spr (Z. Akıncı, Ö. Göksu, A. Kahiloğulları, H. Sunel)

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. 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 correspondence and report writing. Credit units: 3. Spr (Z. Karaibrahimoğlu, 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. Aut (A. Kaya, K. Tırtıglu)

BF 252  Principles of Accounting II
Second course in accounting which covers topics such as; the control of cash transactions, valuation of inventories, long term assets and depreciation, liabilities of business firms. Credit units: 3. Spr (A. Kaya, K. Tırtıglu)

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. Aut (E. Maloney, H. H. Üstünel)

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, Prerequisite: BF 273. Spr (E. Maloney, H. H. Üstünel)

BF 290  Summer Period Project
One-month training period. (see www.bilkent.edu.tr/~sal) Credit units: None. 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, Prerequisite: BF 202. Aut (E. Saatçi)

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, Prerequisite: BF 301. Spr (E. Saatçi)

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. Aut (Z. Akıncı, Ö. Göksu, A. Kahiloğulları, H. Sunel)

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. Spr (I. Boztas, M. Tüzünler, A. Yumuk)

BF 331  French 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, Prerequisite: BF 231. Aut (C. 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, Prerequisite: BF 331. Spr (ÇÖzcan)

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, Prerequisite: BF 252 and BF 363. Spr (Ç. 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. Aut (Ç. 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, 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. Spr (P. Gür)

BF 390  Summer Period Project
One-month training period. (see www.bilkent.edu.tr/sal) Credit units: None. Spr (Staff)

BF 403  English-French Translation
The course gives progressive training in the method and practice of translating from French to English and English into French. Simulation of professional translation activity based on business and financial texts. Practical work includes subtitling and web localization. Credit units: 3. Aut (E. Saatçí)

BF 404  French-English Translation
The course is designed to give more training in professionally oriented translation from French to English and English to French within the wider context of public relations. Practical work includes production of bilingual newsletters and brochures. Credit units: 3. Spr (E. Saatçí)

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. Aut (V. Orenga)

BF 411  Critical Approach to French Literature
Multiple lecture of literary work using a range of interdisciplinary approaches. Approaches include biographical, socio-economical, historical, psychological, structural and semiotic. Credit units: 3.

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, Prerequisite: BF 252 and BF 365. Aut (S. Çilingir, M. Egeli)

BF 462  Investments
Investments setting, alternative investments, securities markets, efficient capital markets, valuation of bonds and stocks. Credit units: 3, Prerequisite: BF 461. Spr (S. 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, Prerequisite: BF 365. Aut (N. Demir, Al. Geber)

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, Prerequisite: BF 162 and BF 463. Spr (M. Egeli)

BF 466 Risk and Insurance
Emphasis on principles involved in risk. Perspective on insurance activity, basic and legal principles of insurance.
Credit units: 3. Spr (B. N. Özer)

BF 468 Finance of International Trade
Trade finance; the role of banks as providers of trade finance. Credit units: 3, 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.

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. Aut (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. Spr (G. Özgökçe)

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, Prerequisite: BF 274 and BF 365. Spr (N. Demir)

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. Aut (P. Gür)
FRENCH PREPARATORY PROGRAM

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

Autumn Semester

TRIN 101 Contrastive Grammar and Lexis (English-Turkish) ........................................ 3
TRIN 103 Contrastive Grammar and Lexis (French-Turkish) ........................................... 3
TRIN 131 Texts and Composition in English I ................................................................. 3
TRIN 133 Texts and Composition in French I ................................................................. 3
TRIN 161 Introduction to Translation .............................................................................. 3
GE 100 Orientation ........................................................................................................... 1
TURK 101 Turkish I ............................................................................................................ 2

Spring Semester

TRIN 102 Applied Linguistics ............................................................................................ 3
TRIN 132 Texts and Composition in English II ............................................................... 3
TRIN 134 Texts and Composition in French II ................................................................. 3
TRIN 166 English-Turkish-French Translation ................................................................. 4
TRIN 172 Computer Literacy ............................................................................................ 3
TURK 102 Turkish II .......................................................................................................... 2

SECOND YEAR

Autumn Semester

TRIN 205 Cultural Contexts I ............................................................................................ 3
TRIN 265 Specialized English-Turkish-French Translation I ........................................... 4
TRIN 267 Sight Translation I ............................................................................................. 3
TRIN 271 Business Communications .............................................................................. 3
HIST 201 History of Turkish Republic I .......................................................................... 2
Restricted Elective (1) ....................................................................................................... 3
**Spring Semester**

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<td>TRIN 234</td>
<td>Documentation and Terminology</td>
<td>3</td>
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<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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**Autumn Semester**

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<td>TRIN 337</td>
<td>Precis Writing in English-French</td>
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<td>Specialized English-Turkish Translation III</td>
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<td>Specialized French-Turkish Translation III</td>
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**Spring Semester**

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<tr>
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<td>Criticism and French Literature</td>
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<td>TRIN 332</td>
<td>Selected Topics from English Literature</td>
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<td>TRIN 364</td>
<td>Specialized English-Turkish Translation IV</td>
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<td>TRIN 390</td>
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**Autumn Semester**

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<td>Turkish Diction</td>
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<td>TRIN 481</td>
<td>Consecutive Interpretation Techniques</td>
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<td>TRIN 483</td>
<td>Simultaneous Interpretation I</td>
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<td>BF 409</td>
<td>Communication and Reporting</td>
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**Spring Semester**

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<td>English-French Translation Workshop II</td>
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<td>TRIN 484</td>
<td>Simultaneous Interpretation II: Fieldwork+Projectwork</td>
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**THIRD YEAR**

**Autumn Semester**

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<td>TRIN 463</td>
<td>Translation Criticism</td>
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<tr>
<td>TRIN 473</td>
<td>Turkish Diction</td>
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<td>Translation Workshop English-French-Turkish</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>English-French Translation Workshop II</td>
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<td>TRIN 486</td>
<td>Specialized Translation Project</td>
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**ELECTIVES**

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<th>Course Code</th>
<th>Course Title</th>
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<tr>
<td>TRIN 207</td>
<td>Language of Journalism</td>
<td>3</td>
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<tr>
<td>TRIN 301</td>
<td>Analysis of Scientific and Technical Texts</td>
<td>3</td>
</tr>
<tr>
<td>TRIN 334</td>
<td>Media Studies</td>
<td>3</td>
</tr>
<tr>
<td>TRIN 336</td>
<td>Introduction to Simultaneous Interpretation</td>
<td>3</td>
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<tr>
<td>TRIN 371</td>
<td>Computer Literacy II</td>
<td>3</td>
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<tr>
<td>POLS 102</td>
<td>Introduction to Law</td>
<td>3</td>
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<tr>
<td>ACC 471</td>
<td>European Union Integration (in French)</td>
<td>3</td>
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<tr>
<td>ACC 474</td>
<td>Management Information Systems (in French)</td>
<td>3</td>
</tr>
<tr>
<td>BF 161</td>
<td>Economics I</td>
<td>3</td>
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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. Aut (A. Bayrakçeken-Kesim)**

**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. 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. 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. Aut (A. Yumuk)**

**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. Spr (A. Yumuk)**

**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. Aut (M. A. Avcı)**

**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. Spr (F. Fissot-Avcı)**

**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. Aut (Boztas, A. Emre)**

**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. Spr (Boztas, S. Sönmez)**

**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. 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. Aut (B. Blackwell Gülen, F. Fissot-Avcı)

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. 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. 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. Spr (H. Sunel, A. Yumuk)

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. Aut (Boztas, S. Sönmez, M. Tüzün)er)

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. Spr (A.Öylek, M. Tüzün)er)

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. Aut (Ş. Akçapar, M. Karagülle, M. Kaya)er)

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. Prerequisite: TRIN 267. Spr (Ş. Akçapar, F. Arslan, 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. Aut (Z. Karabrahimoglu, 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. Aut (A. Bayrakçeken-Kesim)

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. Spr (T. İnal)

TRIN 332 Selected Topics from English Literature
Research, discussion and reports on problems in English Literature. Credit units: 3. Spr (A. Bayrakçeken-Kesim)

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. 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 down while a speaker delivers a speech. Note-taking procedures and bilateral interpretation techniques will also be stressed. Credit units: 3. Aut (F. Arslan, B. Blackwell Gülen, İnal, 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. Spr (Ş. Akçapar, F. Arslan)

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. Aut (Ş. Akçapar, C. Özcan)

TRIN 338 Note-Taking and Consecutive Interpretation II
This course further develops the practical skills of note-taking and consecutive interpretation in a variety of settings. Credit units: 3.

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. Aut (M. Tüzünür)

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. Aut (M. A. Avcı, 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. Spr (A. Bayrakçeken-Kesim)

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. 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. 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. 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. 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. 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. Aut (Ş. Akçapar, İnal)

TRIN 483 Simultaneous Interpretation I
This course emphasizes the techniques and practice of simultaneous interpretation in conference situations. Credit units: 6. Aut (F. Arslan, D.Onay)

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
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. 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. Aut (İ. Boztas, A. Öylek)**

**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. Spr (Boztas)***
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.

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 aims to prepare students for managerial and supervisory positions in hotel, restaurant and travel companies, encouraging them to establish their own firms in hospitality and travel industries. Hotel and restaurant business, culinary arts and travel industry studies emphasized with management courses are taught theoretically 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 periods, 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 Altan**, Instructor
Oğuz Benice, Instructor
Diplôme, Études Supérieures en Hôtellerie et Restauration, Ecole Hôtelière de Lausanne, Switzerland, 1992. Food and beverage operations and management.

Sinan Bilaloğlu, Instructor
M.S., Computer Engineering, Middle East Technical University, 2000. Rapid application development, database management systems.

Güüliz Bolat, Instructor

İbrahim Boz, Instructor

Jamel Ben Mohamed Chafra, Instructor

Ayşe Baş Collins, Assistant Professor
Ph.D., Educational Sciences, Middle East Technical University, 1999. Human resources management, senior project.

Nazende Özkaramete Coşkun, Instructor

İhsan Çetin, Instructor

Hacer Çınar, Instructor

Gülgün Demirel, Instructor

Şermin 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.

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

Tony Evans, Instructor

Ebru Evrensel, Instructor
B.A., English Language Literature, Hacettepe University, 1992. Business research skills, PC business applications.

Güven Fidan, Instructor
M.S., Computer Engineering, Middle East Technical University, 2001. Software engineering, database management systems.
Serkan Genç, Instructor
M.S., Computer Engineering, Middle East Technical University, 1999. Computer graphics, operating systems, website design and implementation.

Faruk Göloğlu, Instructor

Eda Gürel, Instructor

Arzu Sibel İkinci, Instructor

Zeynep İşcan, Instructor
B.A., Sociology, Middle East Technical University, 1989. Organizational behaviour, international communications, business research skills.

Güneş Karamullağlu, 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 Örner, Instructor

Elif Sibel Özdilek, Instructor
B.A., Public Administration and Political Science, Middle East Technical University, 1990. European Union law, business communications, public relations.

Perin Öztin, Instructor

Feray Özverim, Instructor

Aykut Pekcan, Instructor

Vural Polat, Instructor

Kamer Rodoplu, Instructor

Calculus.

Nur Sağlam, Instructor
M.B.A., Gazi University, 1998. Problem solving and algorithms, business computer applications, industrial training, senior seminars in BIM.

Nazimudeen M. Saleem, Instructor

Wolfgang Schmelcher, Instructor
Diploma, Master Chef in Cooking, Culinary College, Claw-Germany, 1981. Food production techniques, food production.
Fatin Sezgin, Visiting Professor  

Esin Şenol, Instructor  
B.S., Food Engineering, Middle East Technical University, 1989. Food sciences, cost control.

Cem Tarhan, Instructor  

Serpi̇l Tin, Instructor  
M.S., Electrical and Electronics Engineering, Middle East Technical University, 1991. Computer networks, algorithms.

Engin Türel, Instructor  

Erkan Uçar, Instructor  
M.S., Computer Engineering and Information Science, Bilkent University, 1993. Software engineering, programming languages, information systems, outsourcing.

Cenk Uyan, Instructor  

Rabia Üşenmez, Instructor  

VOCATIONAL SPECIALISTS

Gözde Aytan  

İsmet Celebi  

Taylan Demirhan  
B.S., Computer Technology and Information System, Bilkent University, 2002.

Burcu Özdoğan  

Hatice Z. Yılmaz  

PART-TIME ACADEMIC STAFF


Berrin Benli, B.S., Computer Engineering, Middle East Technical University, 1986.


Aydın Ercan, Ph.D., Dietetics and Nutrition, Hacettepe University, 1998.


S. Gül Güneş, M.S., Landscape Architecture, Ankara University, 1996.

Esra İsşendiyar, B.A., Administrative Sciences, Middle East Technical University, 1986.

Mehmet İzgi, B.S., Architecture, Portsmouth Polytechnic School of Architecture, 1975.


İsmail Hakkı Polat, B.S., Electrical and Electronics Engineering, Middle East Technical University, 1989.

Murat Serim, B.A., Business Administration, Middle East Technical University, 1990.


H. Şibay Tuğsavul, M.S., Demography, Hacettepe University, 1980.
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:

Management Studies: Around 40% of BIM courses, such as accounting, finance, law, marketing plus a range of supporting business studies provide the necessary foundation in basic administrative and management skills.

IM - Information Management: Starting with extensive hands-on experience in the use of computers and business-oriented applications, students then learn to evaluate, select, implement and manage information systems. Use of the Internet as a source of information and commerce is studied in-depth, from both the user and provider perspective.

Business Communications: “People skills” are a vital component for personal success in all organizations. Therefore, BIM aims to graduate students who have sound teamwork and interpersonal communication abilities. To further enhance the communications component, the BIM curriculum includes courses that focus on writing, speaking, presenting, debating and negotiating.

The curriculum also includes a 50 days summer training program, in addition to a supervised full-semester industrial internship program which allows BIM students to personally experience the demands, challenges, opportunities and frustrations of working life.

### CURRICULUM

#### FIRST YEAR

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Autumn</td>
<td>BIM 103</td>
<td>Keyboarding</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>BIM 107</td>
<td>Elements of Business Mathematics</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>BIM 121</td>
<td>PC Business Applications I</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>GE 100</td>
<td>Orientation</td>
<td>1</td>
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<tr>
<td></td>
<td>ECON 105</td>
<td>Principles of Economics I</td>
<td>3</td>
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<td></td>
<td>ELS 101</td>
<td>English for Professional Purposes I</td>
<td>4</td>
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<td>TURK 101</td>
<td>Turkish I</td>
<td>2</td>
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<tr>
<td>Spring</td>
<td>BIM 108</td>
<td>Elementary Business Statistics</td>
<td>3</td>
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<td>BIM 122</td>
<td>PC Business Applications II</td>
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<td>ECON 106</td>
<td>Principles of Economics II</td>
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<td>THM 105</td>
<td>Introduction to Business</td>
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<td></td>
<td>ELS 102</td>
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<tr>
<td></td>
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#### SECOND YEAR

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<th>Semester</th>
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<td>BIM 201</td>
<td>Problem Solving and Algorithms</td>
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<td>BIM 205</td>
<td>Principles of Accounting</td>
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<tr>
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<td>BIM 210</td>
<td>Legal Aspects of Business</td>
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<tr>
<td></td>
<td>BIM 223</td>
<td>Business Communications I</td>
<td>3</td>
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<tr>
<td></td>
<td>ELS 231</td>
<td>Business Research Skills I</td>
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</tr>
<tr>
<td></td>
<td>HIST 201</td>
<td>History of Turkish Republic I</td>
<td>2</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 a beginning students. The emphasis is firstly on knowledge that will enable the students to become a confident and competent users of the PC and three credit units.  

BIM 104  Business Writing  
A study of effective written communications through analyzing and evaluating representative samples and by planning and writing a variety of business correspondence. Importance of correspondence in the contemporary business environment. Elements of effective writing techniques. International standards of correspondence. Business letter formats.  

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.  

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; bivariante data; regression, correlation will be covered.  

BIM 121  PC Business Applications I  
Upon successful completion of this course students will be computer literate as PC users. The emphasis is on knowledge that will enable the students to become a confident and competent users of the PC and three credit units.
General Application Packages: Windows Explorer, Internet Explorer and MS-Word. Commencing with a basic understanding of hardware, software, and file storage and management methods, the focus turns to the 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. The second half of the course is devoted to an in-depth study of MS-Word: from simple formatting to indexes, formulas, merging and macros. Credit units: 3. Aut (G. Bolat, E. Eren) Spr (T. Evans)

BIM 122 PC Business Applications II
This course is devoted entirely 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 case studies employing a range of Excel mathematical, statistical, financial, logical and lookup functions. Use of macros plus graphical data representation are included as part of the required term project. This course (together with BIM 121) 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 and industrial training semesters. Credit units: 3. Spr (E. Evrensel, A. Şikincti, N. Sağlam)

BIM 181 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. Spr (E. Evrensel, R.Üşenmez) Spr (E. Evrensel)

BIM 182 PC Advanced Applications
This course is designed to give students the advanced topics in Excel, Word and an introduction to Powerpoint. The spreadsheet topics include: charts, auditing, pivot tables, scenario management, Solver, macros. The word processor topics cover: MS Word templates, mail merge to create merged documents, envelopes and labels, tables and advanced reporting features. The Powerpoint section includes powerful presentation techniques and slide show preparation. Credit units: 3.

BIM 191 PC General Applications I
The course objective is to make Students competent as introductory users of four computer General Application Software Packages. Emphasis is placed on managing the computer resource, effective search techniques for retrieving information from the Internet, creating and publishing information on the Internet using MS-Word. This course is a prerequisite to BIM-192; together these two courses provide sufficient knowledge for students to research and prepare term papers, theses, spreadsheets and visual presentations, and to effectively use computers during their industrial training programs. Credit units: 3. Aut (A. Altaban) Spr (R.Üşenmez)

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. Aut (C. Aydoğmuş) Spr (T. Evans)

BIM 201 Problem Solving and Algorithms

BIM 202 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 programming techniques will be introduced along with the usage of Visual Programming. Credit units: 4.

BIM 205 Principles of Accounting
This course 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. Spr (Staff)

BIM 206 Managerial Accounting
The main 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. Prerequisite: BIM 205. Aut (A. Pekcan)

**BIM 210  Legal Aspects of Business**

Students are introduced to the social, political and economic origins of the Turkish legal system with particular
emphasis on the Turkish Commercial Code. Credit units: 3. Aut (G. DÜzdörek)

**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 the Entity Relationship model and the Relational Data
model. Database concepts, definitions, specifications and objectives will first be introduced. DBMS transactions
and data independence will then be covered. These theoretical concepts are applied and enhanced through
labwork sessions, during which students will analyse, design, create and manipulate databases. Finally, the
contributions of DBMS to an organization’s operations, control, and planning activities will be studied. Credit
units: 4. Aut (G. Bolat, E. Eren) Spr (G. Bolat)

**BIM 223  Business Communications I**
The topics that will be covered in this course are definition and importance of communication, factors of communi-
cation process and chain of command, ‘do’s and ‘don’t’s in communication process, overcoming communication
barriers, diversity insights into the communication process, differences in perceptions, and developing interper-
sonal communication skills. Credit units: 3. Aut (E. SÖzdilek)

**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, Prerequisite: BIM 223. Spr (E. SÖzdilek)

**BIM 240  Management Information Systems**
The importance of information and information management in business. The role of MIS in decision support
systems, and in an organization’s structure and communication patterns. Overview of management functions
in three distinct areas: hardware, software, personnel. Management’s role in the planning, development,
installation, operation, and maintenance phases of information systems. Credit units: 3. Spr (G. Bolat)

**BIM 242  Web Site Development I**
The World Wide Web has already established itself as a powerful media for both active and passive communicat-
cions, between people and businesses throughout the world. During laboratory lectures, students will gain a
comprehensive understanding of the Internet and its uses and value to any organization. Students will analyze,
design and create a Website, using popular technical tools including HTML, FrontPage, Photoshop and Java
Applets. This course is a prerequisite to BIM-341. Credit units: 4. Aut (A. SÜkinci, R. Üşenmez)

**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. The rough a case study using hotel manage-
ment software, numerous 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. Aut (C. Çobanlı) Spr
(Staff)

**BIM 284  Travel Industry Computerization**
Simulation software is employed to provide a comprehensive understanding of computerized airline ticketing
systems, which are fundamental to travel agency operations. The student will achieve basic competence in this
complex operation, as well as in the applications that are peripheral to ticketing, such as car rental and hotel
reservations, and segment marketing. Database management packages are introduced as means of exploiting
the travel agency’s client information base. Credit units: 3.

**BIM 285  Business Computer Applications**
The aim of this course is to introduce students to the computerization of 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.
BIM 306 Decision Analysis
Review of basic probability and statistics concepts, analysis of time series, quality and quality control, multiple repression and modeling, index numbers, linear programming, game theory, decision theory. Credit units: 3. Prerequisite: BIM 108 or THM 163. Aut (F. Sezgin)

BIM 308 Professional Communication 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.

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: 3. Aut (G. Bolat) Spr (G. Bolat)

BIM 316 Systems Analysis and Design
This course integrates and applies the material learned in three earlier courses: Problem Solving and Algorithms, Programming, and Database Management Systems. Students will also be required to apply the interpersonal and communication techniques learned in “Communication Skills” courses. Working in teams, students will experience the full System Development cycle, from needs analysis through system design, programming, implementation, user training and documentation. The aim of the course is to enable students to conceptualize and create small, add-on information systems using Visual Basic Programming and MS-Access database software. Credit units: 3. Spr (E. Eren)

BIM 341 Web Site Development II
This course reinforces and builds on the basics taught in 63-242. Students will learn how to convert static, one-way websites into response empowered sources of actionable information. Using a programming language such as Perl, students will develop interactive feedback webpages, plus the back-end support databases and response systems. Working in teams, students will create a website at which visitors can review products or services, can place on-line orders or requests for further information, and will receive automated order acknowledgements at their e-mail addresses. Credit units: 4. Prerequisite: BIM 242 and BIM 201. Aut (A. S.ıkinci) Spr (A. S.ıkinci, R. Üşenmez)

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. Aut (E. S.ÖZdilek)

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 seventy-five (75) working days, is undertaken during the summer break following completion of the student’s second academic year. Credit units: None. Aut (N. Sağlam)

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.

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.

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. Spr (A. Iscan)**

**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. Spr (C. K. Suer)**

**BIM 409 Studies in Finance**
Foundations of financial theory and techniques of financial decision making; time value of money; bond and stock valuation; ratio analysis; financing decisions; capital budgeting; cost of capital; capital structure; trade financing; insurance and risk management. **Credit units: 3, Prerequisite: BIM 205 and BIM 108. Aut (T. Evans) Spr (T. Evans)**

**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.**

**BIM 412 Senior Project II**
Continuation of BIM 411. **Credit units: 3.**

**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.**

**BIM 416 Negotiation Skills**
Negotiation is a life skill. Everybody negotiates all the time whether at work, at home or as a consumer. For some it seems easy. Many of us, however, view the process of negotiation as a source of conflict which we resist, often seeking ways to avoid the process altogether. This course will give the necessary insights to help student gain greater power as they negotiate the minefields of business life and the rest of the “real world”. Course provides practical techniques, workshops to give the student confidence and skill to conduct negotiations and achieve mutually acceptable outcome. **Credit units: 3. Aut (M. Serim)**

**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. Aut (N. Saglam)**

**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.**

**BIM 469 International Communications**
The course is aimed to evaluate international communication system in a historical perspective. It will be held in the context of political, economical and cultural relations between nation states. Discussions will focus on globalization, relation between Islam and the west, different media politics in different countries. **Credit units: 3. Aut (Z. Iscan)**

**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.

**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.

**BIM 491 Business Computer Applications**
The aim of this course is to introduce students to the 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. Aut (C. Çobanoğlu) Spr (Staff)

**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.

**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.

**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. Spr (E. S. Özdìlek)

**BIM 496 Selected Topics in Business Communications**
The subjects 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. Aut (Z. İşcan) Spr (Z. İşcan)

**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. Thought 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. Aut (B. Benli, İ. H. Polat)

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**

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<tr>
<td>CTIS 151 Introduction to Programming</td>
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<tbody>
<tr>
<td>CTIS 152 Algorithms and Data Structures</td>
</tr>
<tr>
<td>CTIS 154 Discrete Mathematics II</td>
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<td>CTIS 156 Information Technologies II</td>
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<tr>
<td>THM 158 Principles of Economics</td>
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**SECOND YEAR**

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<tr>
<td>CTIS 251 Object Oriented Programming</td>
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<td>CTIS 255 Web Technologies I</td>
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<td>CTIS 257 Computer Architecture</td>
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<tr>
<td>CTIS 252 Programming in Java</td>
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<tr>
<td>CTIS 254 Fundamentals of Database Systems</td>
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<tr>
<td>CTIS 256 Web Technologies II</td>
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<td>THM 202 Principles of Management</td>
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<td>TURK 102 Turkish II</td>
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**THIRD YEAR**

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<tbody>
<tr>
<td>CTIS 290 Summer Training</td>
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<tr>
<td>CTIS 351 Rapid Application Development</td>
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<tr>
<td>CTIS 353 Database Management Systems</td>
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<tr>
<td>CTIS 355 Operating Systems</td>
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<tr>
<td>THM 309 Principles of Marketing</td>
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<tr>
<td>ELS 311 Communication Skills I</td>
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### Spring Semester
- **CTIS 310**  Industrial Training Project  

### Autumn Semester
- **CTIS 451**  Data Communications and Networking  
- **CTIS 453**  Selected Topics in Information Systems I  
- **CTIS 455**  Software Engineering  
- **THM 403**  Organizational Behavior  
- **ELS 411**  Communication Skills II  

### Spring Semester
- **CTIS 450**  Research Thesis  
- **CTIS 452**  Information Systems Applications  
- **CTIS 454**  Selected Topics in Information Systems II  
- **CTIS 456**  Senior Project  
- **CTIS 458**  Seminars in Information Systems  

### 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. Aut (V. Polat, S. Tin) Spr (F. Göğüş, V. Polat)_

**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, Prerequisite: CTIS 151 or CTIS 121 and CTIS 123. Spr (S. Tin, E. Uçar)_

**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. (Three hours lecture.) 
_**Credit units:** 3. Aut (D. Albayrak) Spr (D. Albayrak)_

**CTIS 154  Discrete Mathematics II**
The course introduces algebras that directly apply 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. (Three hours lecture.) 
_**Credit units:** 3, Prerequisite: CTIS 153 or CTIS 127. Spr (F. Göğüş)_

**CTIS 155  Information Technologies I**
The aim of the course is to provide knowledge on the essential current computer applications and computer literary. 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. Aut (D. Albayrak, T. Evans, C. Uyan) Spr (D. Albayrak)_

**CTIS 156  Information Technologies II**
Networking and Internet applications such as browsers, telnet, ftp, security applications against malicious attacks such as viruses, Trojan horses. Multimedia programs for animation, image processing, web authoring. The basic concepts in Database Management Systems. (Three hours lecture in lab.) 
_**Credit units:** 3, Prerequisite: CTIS 155 or BIM 181. Spr (V. Polat, C. Uyan)_

**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. (Four hours lecture, three hours lab.) 
_**Credit units:** 5, Prerequisite: CTIS 152 or CTIS 122 and CTIS 124. Aut (G. Fidan, C. Uyan)_
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, Prerequisite: CTIS 251 or CTIS 201. Spr (G. Fidan, G. Uyan)

CTIS 254 Fundamentals of Database Systems
The course will provide a brief introduction to databases followed by the database basics and algorithms to store and organize data. Introduction to database systems. The entity-relationship model. The relational model. Relational algebra and calculus. Data storage, file organizations and indexing. Comparative analysis of file systems and database systems. (Three hours lecture, two hours lab.) Credit units: 4, Prerequisite: CTIS 152 or CTIS 122 and CTIS 124. Spr (G. Fidan)

CTIS 255 Web Technologies I
The objective of the course is to give the necessary background information and the technologies the develop a professional web site. It focuses mainly on design and implementation of interactive web pages using different web technologies like html, dhtml, css, javascript, flash. Through both lectures and laboratory work, students will gain a comprehensive understanding of the Internet and the purpose and value to an organization of owning a website. (Three hours lecture in lab.) Credit units: 3, Prerequisite: CTIS 155 or CTIS 181 or BIM 181. Aut (S. Genc)

CTIS 256 Web Technologies II
The aim of the 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, Prerequisite: CTIS 255. Spr (S. Bilaloglu, S. Genc)

CTIS 257 Computer Architecture
The course material covers both digital design and computer architecture. The students will learn the elementary components of the digital circuit 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, Prerequisite: CTIS 151 and CTIS 154. Aut (F. Golo glu)

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 fifty (50) 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. Aut (E. Ucar)

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, Prerequisite: CTIS 290. Spr (S. Genc)

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, Prerequisite: CTIS 251 or CTIS 201. Aut (S. Bilaloglu)

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, Prerequisite: CTIS 254. Aut (G. Fidan)
CTIS 355 Operating Systems
The aim of this course is to teach the basic components, operation and the concepts of the operating systems. Also, UNIX operating system is taught to enable the students to be able to work in a UNIX environment. The main topics are processes, memory management, file system, Unix shells, regular expressions, awk programming, shell scripts, UNIX tools. (Three hours lecture, two hours lab.) Credit units: 4, Prerequisite: CTIS 152 or CTIS 122 and CTIS 124. Aut (S. Bilalolu)

CTIS 450 Research Thesis
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. Spr (E. Uçar)

CTIS 451 Data Communications and Networking
Introduction, motivation and tools. Network programming and applications; network communication, client-server computing. Data transmission; transmission media and packet transmission. Long distance communication, LAN technologies and network topology. WAN technologies and routing. Connection oriented networking and ATM. Protocols and layering. Internetworking concepts, architecture and protocols and TCP/IP. Credit units: 4, Prerequisite: CTIS 156 or CTIS 181 or BIM 181. Aut (V. Polat)

CTIS 452 Information Systems Applications

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. Credit units: 3. 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. Credit units: 3. Spr (S. Genç)

CTIS 455 Software Engineering

CTIS 456 Senior Project
Students are assigned a project that will allow them to apply the tell scope their four years of industry and computer training working in small teams, under the 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 description and full demonstration of their work. Credit units: 5, Prerequisite: CTIS 252 and CTIS 353 and CTIS 455. Spr (E. Uçar)

CTIS 458 Seminars in Information Systems
During this final semester course, student teams will prepare a survey thesis on a spectrum of contemporary Computer and Information Systems topics-these will range from social and ethical issues arising from globalization of networks, to trends in hardware, software, communications and peripheral technologies. Panel discussions will provide the medium for presentation of each group’s findings and observations. At the first quarter of the course, guest speakers from IT industry will provide seminars. Credit units: 2. Spr (E. Uçar)
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

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<th>Semester</th>
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<th>Course Name</th>
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<tr>
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<td>THM 106</td>
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<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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<td>English for Professional Purposes I</td>
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<td>Behavior and Etiquette</td>
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<td>THM 168</td>
<td>Nutrition and Sanitation</td>
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<td>Rooms Division Management</td>
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<td>THM 245</td>
<td>Purchasing and Cost Analysis</td>
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<td>THM 247</td>
<td>Food and Beverage Management</td>
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<td>THM 269</td>
<td>Co-Op Management Application</td>
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<td>HIST 201</td>
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<td>THM 242</td>
<td>Social Psychology</td>
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<td></td>
<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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<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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THIRD YEAR

**Autumn Semester**
- THM 300 Summer Training ........................................... 3
- THM 301 Human Resources Management ................................ 3
- THM 309 Principles of Marketing ...................................... 3
- THM 313 Hospitality Management Accounting ..................... 3
- THM 323 International Cuisines ....................................... 4
- THM 326 Tourism Policies and Sustainability ....................... 3
- THM 348 Service Operations Management .......................... 3
- ELS 311 Communication Skills I ................................. 2
- Restricted Elective ..................................................... 3

**Spring Semester**
- THM 310 Industrial Training Project ................................ 4

FOURTH YEAR

**Autumn Semester**
- THM 403 Organizational Behavior .................................... 3
- THM 409 Tourism Law .................................................. 3
- THM 415 Finance ......................................................... 3
- THM 417 Quantitative Decision Techniques ....................... 3
- ELS 411 Communication Skills II .................................... 2
- Restricted Elective ..................................................... 3

**Spring Semester**
- THM 418 Senior Project ................................................ 3
- THM 419 Tourism Management Applications ....................... 3
- THM 420 Seminars on Tourism Industry ............................ 2
- THM 423 Tourism Economics ......................................... 3
- BIM 491 Business Computer Applications ........................ 2
- Restricted Electives (2) .............................................. 6

**RESTRICTED ELECTIVES**
- THM 391 Business Forecasting ....................................... 3
- THM 392 Nutrition and General Health ............................ 3
- THM 396 Case Studies for Tourism .................................. 3
- THM 453 Total Quality Management ................................ 3
- THM 454 Management Behavior and Team Effectiveness ........ 3
- THM 475 Strategic Marketing for the Hospitality Industry ...... 3
- THM 478 Hotel Investment Decision ................................ 3
- THM 482 Club Management .......................................... 3
- THM 483 Select Issues in Turkish Tourism ....................... 3
- THM 484 Case Studies in Applied Marketing ..................... 3
- THM 485 Hospitality Architecture and Design .................... 3
- THM 487 Concept and Design for Food and Beverage Outlets .. 3
- THM 488 Eco-Tourism .................................................. 3
- THM 911 Selected Topics in Tourism I ............................ 3
- THM 912 Selected Topics in Tourism II ........................... 3
- BIM 282 Hospitality Industry Computerization .................. 3
- GER 261 Intermediate German I .................................... 3
- GER 262 Intermediate German II ................................... 3

* SECOND FOREIGN LANGUAGE COURSES

One of the following seven-semester sequences of courses in Japanese, French, German, Italian, Spanish, or Russian, offered by the Faculty of Humanities and Letters, can be taken to fulfill the second foreign language requirements:
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. Aut (Y. Ergüven, Rözverim) Spr (Y. Ergüven)

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. Aut (H. Çınar, Z.İ. Ertuna, E. İsfendiyar) Spr (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. 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. Aut (F. Özverim)

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. Aut (G. Karamullaoğlu) Spr (O. Benice)

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. Aut (K. Rodoplu) Spr (A. Altaban, K. Rodoplu)

THM 166  Health Studies
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 sensitise students to the rules of protocol and dynamics of contrasting cultures is also another aim of this course. Credit units: 1. Aut (N.Örer) Spr (N. Örer)

THM 167  Behavior and Etiquette
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. Aut (N.Örer) Spr (A. Ercan, 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. Aut (G. Karamullağlı) 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. Aut (H. Erkutlu, A. Pekcan) Spr (NÖ. Coşkun, 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. Aut (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. 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. 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. Aut (W. Schmelcher) Spr (H. Ç. Kuchlein)

**THM 245 Purchasing and Cost Analysis**
Provides students will 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. 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. Aut (M. Songur) Spr (Staff)

**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. 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. Spr (RÖztin)

**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. 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. 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.  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.  Aut (H. Erkutlu, E. Gürel)  Spr (H. Erkutlu)

THM 310  Industrial Training Project
Students spend one full semester working in the industry. This provides the students with an opportunity to apply their present knowledge in a real-life environment, and to observe, document and evaluate the operations of a department. During their internship the student will be required to prepare a report of their experience, identifying the factors contributing to the success and/or problems of the department.  Credit units: 4, Prerequisite: THM 300 or THS 190.  Aut (E. Türel)  Spr (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, Prerequisite: THM 106.  Aut (H. Çinar)  Spr (H. Çinar)

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, Prerequisite: THM 246 and THM 244.  Aut (H. C. Kuchlein)  Spr (W. Schmelcher)

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.  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 historic development and importance of meetings and conventions, together with the terminology and classification. Prominent event destinations in the world and their attributes are also discussed. Costing details and operation process of small to medium size events are the final major topic.  Credit units: 2.

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.  Aut (N. M. Saleem)  Spr (N. M. Saleem)

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.  Aut (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.

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.  Aut (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.  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. 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. Aut (Z.˙I. 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. Aut (Z.˙I. 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. Aut (H. Erkutlu, A. Pekcan) Spr (˙I. Boz, A. B. Collins, İ. Çetin, E. Gürel, A. Pekcan, N. M. Saleem)

THM 419 Tourism Management Applications
Overview 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. Aut (Z.˙I. Ertuna) Spr (C. Ertuna)

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. 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, 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. Aut (˙I. Boz) Spr (F. Önder)

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. Aut (Y. Ergüven)

THM 475 Strategic Marketing for the Hospitality Industry
The course intends to present the strategic 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. Thes, to provide guidance to the development and preparation of strategic planning of any hospitality operation. Credit units: 3.

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. Spr (H. Günaydın)

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. 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. Spr (H. Ş. Tağsavul)
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 choive 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 marketing 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.

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. Spr (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. Spr (Staff)

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. Aut (R. Y. Altuğ) Spr (R. Y. Altuğ)
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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VOCATIONAL PROGRAM IN TRANSLATION

English and Translation Studies is a two-year program for students seeking employment in business and professional organizations where proficiency in English, Turkish and the ability to translate into either language is essential. Upon successful completion of the program students are awarded the Associate of Arts degree in Translation.

The program provides sound vocational training in translation from English to Turkish and Turkish to English, with importance given to written and oral skills in both languages. In addition to translation courses students also take courses in cultural studies with the aim of enhancing their awareness of current world trends.

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

Autumn Semester
ETS 103  English Usage and Style I  .................................................. 2
ETS 105  Discourse Analysis ................................................................. 3
ETS 107  Comparative Structure I ......................................................... 3
ETS 121  Written Translation I ............................................................... 3
ETS 153  Lexicology ................................................................................ 2
ETS 183  Societies and Culture ............................................................... 3
CTP 191  Introduction to Computers ...................................................... 4
TURK 103  Turkish Usage and Style I .................................................... 3

Spring Semester
ETS 104  English Usage and Style II ..................................................... 2
ETS 108  Comparative Structure II ......................................................... 3
ETS 122  Written Translation II ............................................................... 3
ETS 124  Written Media Translation ....................................................... 3
ETS 126  Consecutive Translation ......................................................... 3
ETS 160  Semiotics ................................................................................. 2
TURK 104  Oral and Written Practice of Turkish II .................................. 3

SECOND YEAR

Autumn Semester
ETS 205  Advanced Discourse Analysis ............................................... 3
ETS 207  Translation for Business I ....................................................... 3
ETS 211  Interpretation Skills I ............................................................... 3
ETS 213  Translation for Dubbing and Subtitling I ................................... 3
ETS 221  Theories and Techniques of Translation ................................... 3
ETS 235  Translation for Social Sciences I .............................................. 3
ETS 281  Translation for Technology I .................................................. 2
HIST 201  History of Turkish Republic I .............................................. 2

Spring Semester
ETS 208  Translation for Business II ..................................................... 3
ETS 212  Interpretation Skills II ............................................................. 3
ETS 214  Translation for Dubbing and Subtitling II .................................. 3
ETS 222  Translation Project ................................................................. 3
ETS 224  Literary Translation ............................................................... 3
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.

ETS 021 Translation for Economics  
This course provides a language environment where students will be familiarized with the terminology of eco-  
nomics 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.

ETS 022 Written Translation for General Purposes  
The course will start by comparing and analyzing the source language and target language structurally, syntact-  
ically, 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:** 3.

ETS 023 Medical Translation  
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.

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:** 4.

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.

ETS 103 English Usage and Style I  
This course will focus on reading and writing of different types of texts, placing emphasis on developing students  
ability to comprehend complicated and sophisticated texts of different types and register, and to write texts of  
different types and register. **Credit units:** 2. Aut (N. Yegül)

ETS 104 English Usage and Style II  
This course will cover report writing, academic writing and note-taking, as well as reading for academic purposes.  
(getting the main idea of articles, library research, scanning sources). **Credit units:** 2. Aut (A. Güran)

ETS 105 Discourse Analysis  
The aim of this course is to teach the basic concept of semantics, fundamental movements of philosophy and  
psychology, and discourse theory. Students will study various texts of social sciences and literature. **Credit units:** 3. Aut (A. Güran)

ETS 107 Comparative Structure I  
The aim 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. It will provide the  
necessary basic skills, techniques and strategies involved in two-way translation. **Credit units:** 3. Aut (G. Tümür)

ETS 108 Comparative Structure II  
The aim of this course is to analyze complex structures of the language and to enable the students to perform  
translation activities via emphasis on form, meaning and use as regards structural aspect of English usage and  
style. **Credit units:** 3. Aut (G. Tümür)
ETS 121  Written Translation I
This course will focus on 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 and the audience of the chosen text types. Credit units: 3. Aut (Ş. Katlan)

ETS 122  Written Translation II
This course will focus on 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 and the audience of the chosen text types. Credit units: 3. Aut (S. Kunt-Akbaş)

ETS 124  Written Media Translation
This course will focus on translation of news items, articles, editorials, cartoons and film, press, play, concert, book and sports reviews for written media. It will also include translation of written media materials for oral presentation e.g. news and feature programs for the radio. Translation of these materials will be from English into Turkish and from Turkish into English. Credit units: 3. Aut (Ş. Katlan)

ETS 126  Consecutive Translation
This course aims at enabling students to acquire mastery in sight translation and consecutive translation. With this view, students are introduced techniques of effective listening, note-taking and memory development. They also learn how to deal with stage fright and how to get prepared for a conference. After these preparations are completed, students practice sight translation and consecutive translation through the use of manuscripts of assorted speeches and oral presentations on a wide variety of topics. Credit units: 3. Aut (N. Yeşil)

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. 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. Aut (S. Keşkekci, R. Şabi Koç)

ETS 133  Lexicology
Although translation is never a word-for-word transfer process, words are the building blocks of language and translation. So vocabulary is one of the major tools in both comprehension and reformulation phases of translation. For the translation product to be satisfactory, 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 an above-the average amount of vocabulary, to recall words readily, during interpretation especially and to use the dictionary efficiently and accurately. Credit units: 2. Aut (S. Kunt-Akbaş)

ETS 150  Societies and Culture
The course aims to familiarize students with the language of social sciences through comparing and contrasting attitudes, beliefs, traditions and ways of behaving related to the family, class and status, education, health and welfare, religions, economics, government and law and order. The course will also examine the concept of culture and evaluate the effect of external influences on national cultures and behavior. Credit units: 3. Aut (Ş. Kılıçlar-Dalbudak)

ETS 155  Advanced Discourse Analysis
The aim of this course is to enable the students use their previous knowledge of discourse theory. In this course they will analyze poems, extracts from plays and novels, short stories and argumentative texts. Later they will translate these texts under the light of their analysis. Credit units: 3. Aut (A. Güran)

ETS 165  Translation for Business I
The aim of the course is to enable students to acquire written translation knowledge and skill required in the fields of business and tourism. It includes reading and translation of a wide variety of business letters (i.e. enquiry, order, complaint, letter of application) and texts related to topics on business (i.e. foreign trade, insurance, customs and procedures, bills of loading). The course aims at raising students’ awareness and understanding of terminology in the field of tourism and hotel management and focusing on practice in the translation of materials such as tourism geography, tourism marketing, hospitality. Credit units: 3. Aut (T. Esmer)

ETS 168  Translation for Business II
The course focuses on equipping the students with terminology of banking and finance and will cover the reading and translation of materials relating to fields such as banking operations and stock market. The course will
also familiarizes students with legal documents and enables them to translate such documents (i.e. contracts, specifications, public notary, invitation to bids) used in business world. **Credit units: 3.**

**ETS 211 Interpretation Skills I**
This course aims at combining first-rate aural comprehension with the ability to take notes and to develop an ability to translate the gist of what is heard. The focus will be on the correct interpretation of discourse, register, intonation and specific terminology. **Credit units: 3. Aut (N. Yeşil)**

**ETS 212 Interpretation Skills II**
This course will follow on from Interpretation Skills I and will further develop the topics and the focus of Interpretation Skills I. **Credit units: 3.**

**ETS 213 Translation for Dubbing and Subtitling I**
This course concentrates on subtitle translation for documentaries, feature films and TV programs. An introduction will also be made to the basics of synchronized translation. **Credit units: 3. Aut (Ş. Küçükal-Dalbudak)**

**ETS 214 Translation for Dubbing and Subtitling II**
This course concentrates on synchronized translation for dubbing purposes. Students will work on authentic materials such as feature films, documentaries, TV programs and cartoons. **Credit units: 3.**

**ETS 221 Theories and Techniques of Translation**
The aim of this course is to explore the nature of problems raised in translation both from Turkish to English and English to Turkish. Various theories concerning the process of translation will be introduced and students will engage in critical analysis of the quality and adequacy of translations. **Credit units: 3. Aut (S. Kunt-Akbaş)**

**ETS 222 Translation Project**
The project will consist of a large-scale piece of translation from Turkish to English. The project is intended to combine all skills learned and practiced during the program. Students will also be required to analyze their project experience in an extended piece of writing. **Credit units: 3. Aut (Ş. Küçükal-Dalbudak)**

**ETS 224 Literary Translation**
This course will consist of written translation from English into Turkish of literary material which will include the translation of literary articles, poems, stories, screenplays and plays. **Credit units: 3.**

**ETS 225 Translation for Social Sciences I**
This course aims at developing students’ awareness and understanding of terminology in the field of social sciences and will concentrate on practice in the translation of topics such as international politics, international organizations, history, music, art, theatre. **Credit units: 3. Aut (T. Esmer)**

**ETS 226 Translation for Social Sciences II**
This course will follow on from Translation for Social Sciences I and will further develop the topics and the focus. The topics to be covered include sociology, psychology, anthropology, geography, archeology, philosophy (case studies). **Credit units: 3.**

**ETS 228 Translation for Technology I**
The aim of this course is to develop students’ practical knowledge and understanding in different areas of science and technology and to equip them with terminology used in different areas for recognition and/or production and be able to translate by using appropriate structure, terminology, register and tone. Topics include agriculture, environment, geology, construction, etc. **Credit units: 2. Aut (G. Tümer)**

**ETS 229 Translation for Technology II**
This course follows on from Translation for Technology I and further develops the topics and focus of it. Topics include architecture, pharmacology, medicine, engineering, telecommunication, etc. **Credit units: 2.**
ENGLISH LANGUAGE PREPARATORY PROGRAM

E. Küknner (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 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 tests 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.

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.
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.

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 primary objective of this course is to help students improve their general and academic use of English. Students will gain skill and experience in using common (non-researched) academic genres through a process-based approach. Students will gain skill in reading and analyzing texts that will help broaden their perspectives concerning intellectual and artistic traditions. Students will also improve their ability to actively participate in classroom discussion and present information and opinions effectively in an oral format. 


ENG 102 English and Composition II
The primary objective of this course is to help students improve their general and academic use of English. Students will gain skill and experience in using common (researched) academic genres through a process-based approach. Students will gain skill in reading and analyzing texts that will help broaden their perspectives concerning intellectual and artistic traditions. In addition, students will learn how to complete basic research at the library, evaluate sources, and properly document information. Students will also improve their ability to actively participate in classroom discussion and present information and opinions effectively in an oral format.

Credit units: 3, Prerequisite: ENG 101 or ENG 113; ENG 101. Aut (J. S. Alam, N. Avcıbasıoğlu, H. Başol-Çetin, Ş. Berilgen, Ş. Bezci, R. Gağrananova, J. Harris, K. B. İncitmez, S. Leech, J. Spring) Spr (Staff)

ENG 117 Advanced English Grammar I
This course is designed specifically to help literature students to 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. The following common literary essay forms will be studied in class: descriptive, analysis, and compare/contrast essays.

Credit units: 3. Aut (M. Özyurt Kılıç)

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, Prerequisite: ENG 115 or ENG 117; ENG 117.

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. Aut (Ş. Berilgen)

ENG 206 Business Communications
The objective of this course is to develop professional communication skills necessary for Business Administration majors as they enter the business world. Coursework includes writing 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. Spr (Staff)

ENG 208 Creative Writing Nonfiction
This course will examine the techniques and practices of creative nonfiction, with particular emphasis on the travel essay. We will consider ways in which landscape and place work beyond mere setting form the essential
drama, conflict, lyric or narrative arc of a literary essay. We will look at various sub-genres of creative nonfiction, such as biography, memoir, and satire. The course consists of formal classroom instruction and participatory writing workshops from which students will produce essays and a portfolio of writing assignments. **Credit units:** 3.

**ENG 214 Research Techniques for Humanities**

This course aims to improve the basic research skills that students develop in ENG 101 and ENG 102. The research skills required for completing term papers on literary topics will be focus of this course. **Credit units:** 3, **Prerequisite:** ENG 201 or ELIT 201. **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. **Aut (S. Erton) Spr (Staff)**

**ENG 241 Sophomore Academic English I**

This course aims to reinforce and develop students' academic English skills beyond the level reached in the Freshman year. This is done in conjunction with Phil 241, with a particular focus on reading, thinking, writing and speaking about influential social and political philosophy texts. **Credit units:** 3. **Prerequisite:** ENG 241, **Corequisite:** PHIL 241. **Aut (J. S. Alam, P. Durrant, J. Harris, A. Kadioglu, I. Kaya-Yildirim, M. Krugman, T. Kusmenoglu, S. P. McLoughlin, J. Spring, R. Turner)**

**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, thinking, writing and speaking about influential social and political philosophy texts. **Credit units:** 3, **Prerequisite:** ENG 241, **Corequisite:** PHIL 242. **Spr (J. S. Alam, P. Durrant, J. Harris, M. Krugman, T. Kusmenoglu, J. Sands, J. Spring, R. Turner)**

**ENG 294 English for Language Development**

This course is aimed at any student in the Faculty of Art, Design and Architecture who are interested in improving their language skills. The course focuses on faculty-specific needs, such as vocabulary development, and provides training and guidance on giving successful jury presentations. Any Sophomore, Junior or Senior student may elect to take this course. **Credit units:** 3. **Aut (S. Bezci)**

**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.

**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, **Prerequisite:** ENG 102. **Spr (Staff)**

**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, **Prerequisite:** ENG 102 or ENG 104. **Aut (M. Langbroek, P. Stephan, S. Warchol)**

**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. **Aut (U. Celikyay, A. Kadioglu, I. Kaya-Yildirim)**

**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.**

**ELS 101**  **English for Professional Purposes I**
This course is intended to help students use English effectively and appropriately, find and convey information and develop the capacity for critical thought and expression, focusing on the principles of argumentation. **Credit units: 4.**  **Aut (H. Dabir, R. Dalgleish, S. Durmaz, J. Goggin, S. Keşkekci, N. Kilincarslan, G. Qğuz, P. Poole, R. Şabi Koç, T. Thurston)**

**ELS 102**  **English for Professional Purposes II**
This course further develops the written skills introduced in ELS 101 with particular emphasis on critical analysis, research skills, and persuasive argumentation. **Credit units: 4.**  **Prerequisite: ELS 101.**  **Aut (J. Asquith, H. Dabir, R. Dalgleish, P. Poole, D. J. Willmann)**

**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.**  **Aut (J. Asquith, H. Dabir, S. Durmaz, S. Erdğan, M. Sherwood)**

**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.**  **Prerequisite: ELS 103.**  **Aut (J. Goggin, S. Keşkekci, T. Thurston)**

**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.**  **Prerequisite: ELS 103 and ELS 104; ELS 104.**  **Aut (P. Colebrook, J. Goggin, S. Keşkekci, S. Koseoglu, 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.**  **Prerequisite: ELS 103 and ELS 104 and ELS 203; ELS 203.**  **Aut (S. Durmaz, S. Köseoglu, D. J. Willmann)**

**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.**

**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.**

**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.**  **Aut (E. Evrensel, Zıscan)**

**ELS 311**  **Communication Skills I**
This course intends to develop primary research skills. Students are expected to design a questionnaire present and analyse data in order to write a business research report. **Credit units: 2.**  **Aut (H. Dabir, R. Dalgleish, S. Durmaz, J. Goggin, D. J. Willmann)**

**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.**  **Aut (P. Colebrook)**

**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 of 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.**

**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.**
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.

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. **Aut (M. Krugman)**

ELS 411  Communication Skills II
This course aims to develop students' ability to find, evaluate and organize information and ideas in order to present secondary research in a business report format. **Credit units:** 2. **Aut (S. Köseğlu, P. Poole, T. Thurston)**
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 Durukan**, Instructor  

**Hayrünnsa 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.

**Esra Findik**, Assistant Professor  
Ph.D., Library Information Sciences, Hacettepe University, 1985. Etiquette and modern business manners, business writing techniques in Turkish, on the job training, office machines.
Sezer Kadayıfcılar, Instructor

Reyyan Ödemiş, Instructor
B.S., Political Science, Ankara University, 1972. Organizational behavior, principles of management, presentation techniques, business writing on the job training.

Halil Özmen, Instructor
M.S., Computer Engineering, Middle East Technical University, 1981. Data structures, algorithms, computer architecture.

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.

Okyay Say, Instructor (on leave)

Selda Sevin, Instructor

Aysın Solak-Örkücüoğlu, 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.

Sibel Uğurlubilek, Instructor

Gülşen Ungan, Instructor
M.S., Hacettepe University, 1974. Keyboarding, applied word processing, secretarial subjects.

Hülya Yavuz, Assistant Professor
Ph.D., Educational Sciences, Middle East Technical University, 1991. Computer aided education, curriculum development, mathematics education.

Füsun Yürüten, 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

Cem Aydın

Lale Duman Gemalmaz
Burcu Görücü

Pelin Kalkanoğlu

Aslı Ömerbeyoğlu

Seren Özdenen

Eda Öztürk

PART-TIME ACADEMIC STAFF

Serhat Azgur, B.S., Department of Management, Middle East Technical University, 1979.
Erkut Bil, B.S., Office Management in Tourism, Bilkent University, 1999.
Nursel Demirel, B.S., Management and Accounting, Gazi University, 1982.
Yalçın Gülerman, B.S., Economics, Middle East Technical University, 1979.
Aslı Bahar İnan, B.S., Electrical and Electronics Engineering, Middle East Technical University, 2002.
E. Murat Kösereişoğlu, B.S., Management, Middle East Technical University, 1989.
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

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<td>CAD 111 Principles of Management</td>
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#### SECOND YEAR

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<td>CAA 212 Advanced Accounting Applications</td>
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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. Aut (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. 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. Prerequisite: CAD 111 and CAD 125. Spr (A. Durukal)

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. Prerequisite: CAA 111. Aut (S. Sevin)

CAA 211  Managerial Accounting

CAA 212  Advanced Accounting Applications
Advanced financial, cost, and managerial accounting applications with spreadsheet and accounting software packages. Credit units: 3. Prerequisite: CAA 211 and CTP 192. 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. Prerequisite: CTP 192. Aut (S. Kadayıfçıl)

CAA 225  Statistics

CAA 226  Elements of Finance Analysis

CAA 243  Auditing
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. Prerequisite: CAA 111. Aut (A. Padır)

CAA 246  Principles of Banking and Insurance

CAA 248  Legal Aspects of Business

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, identifying the requirements, creating the tables, queries and reports to meet these requirements. Lectures take place in the computer laboratory. Credit units: 3. Spr (N. Fenmen)
BUREAU MANAGEMENT AND SECRETERIAL TRAINING

E. Fındik (Chair), N. Aykanat, H. Erdem, R. Ödemiş, G. Ungan, K. Zaim.

Vocational Specialists: P. Kalkanoğlu.


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.

CURRICULUM

FIRST YEAR

Autumn Semester

BM 101       Keyboarding                                      3
BM 161       Office Administration and Management            3
BM 171       Business Mathematics                             3
GE 100       Orientation                                       1
CTP 191      Introduction to Computers                        4
ELS 101      English for Professional Purposes I              4
ELS 103      Advanced English I                              4
HIST 201     History of Turkish Republic I                    2
TURK 101     Turkish I                                       2

Spring Semester

BM 102       Applied Word Processing                          3
BM 162       Office Machines                                  3
BM 172       Filing and Record Management                     3
BM 182       Principles of Accounting                        3
CTP 192      Introduction to Computer Applications            4
ELS 102      English for Professional Purposes II             4
ELS 104      Advanced English II                             4
HIST 202     History of Turkish Republic II                   2
TURK 102     Turkish II                                      2

SECOND YEAR

Autumn Semester

BM 200       On the Job Training                             -
BM 201       Advanced Word Processing                         3
BM 261       Microeconomics                                  3
BM 272       Business Writing Techniques in Turkish           3
BM 281       Organizational Behavior                          3
CTP 291      Computer Applications for Business I             4
ELECTIVE COURSES

BM 184 Standard Turkish Accounting System ........................................ 3
BM 185 Management Information Systems .............................................. 3
BM 186 Business Statistics ................................................................. 3
BM 187 Macroeconomics ........................................................................ 3
BM 188 Presentation Techniques .............................................................. 3
BM 189 Principles of Marketing ............................................................... 3
BM 190 Introduction to Business .............................................................. 3
BM 192 Commercial Correspondence ...................................................... 3
BM 193 Introduction to Finance ............................................................... 3
FRE 151 Basic French for BM I .............................................................. 3
FRE 152 Basic French for BM II ............................................................ 3
GER 151 Basic German for BM I .............................................................. 3
GER 152 Basic German for BM II ............................................................ 3
ITA 151 Basic Italian for BM I .............................................................. 3
ITA 152 Basic Italian for BM II .............................................................. 3
SPA 111 Basic Spanish I ......................................................................... 3
SPA 112 Basic Spanish II ...................................................................... 3

COURSE DESCRIPTIONS

BM 100 Keyboarding
At the end of this course, the student will be able to type by touch (without visual assistance) on a computer keyboard, using techniques that are acceptable. This course makes the students able to type letters, figures and most commonly used symbols keys and to use the basic rules of arrangement of copy on paper; to apply full finger typing skills to production of documents both in Turkish and English. Students, who can type touch, do computer based tasks, assignments, reports and theses more quickly at school or home. They also can enter their thoughts and ideas into the computer and edit it properly. (Total course hours: 36 hours and per week depends on the department). Credit units: 3. Aut (E. Bil, N. Demirel, H. Erdem) Spr (E. Bil)

BM 101 Keyboarding
At the end of this course, the student will be able to type (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. 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. Prerequisite: BM 101 and CTP 191. Aut (G. Ungan) 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. 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. 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. 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. 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. Spr (N. Aykanat)*

**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. 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.*

**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. Spr (K. Zaim)*

**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.*

**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. Aut (K. Zaim)*

**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.*

**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.

**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. **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 to 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, **Prerequisite:** BM 101. **Aut (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 untrained 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, **Prerequisite:** BM 102. **Aut (H. Erdem) Spr (H. Erdem)**

**BM 261  Microeconomics**
The course is designed to 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. **Aut (K. Zaim)**

**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. **Aut (M. E. Savun) 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. **Aut (E. Fındık) 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. **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. **Aut (R. Ödemiş)**

**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. **Aut (K. Zaim) Spr (K. Zaim)**


COMMERCES AND ADMINISTRATION

N. Fenmen (Acting Chair), I. N. Durubal, A. Durukal, M. Ferendeci-Özgödek, S. Kadayıflar, S. Sevin.

Part-time: E. M. Kösereisoglu.

Commerce and Administration is a two-year program leading to an Associate of Science degree in business administration. Students are given a strong background in business, marketing, human resource management and financial applications, and trained so that they are familiar with the software packages widely used in business.

The curriculum of the department covers business administration, production management, marketing, human resources management, economics, statistics, accounting and finance courses. Apart from the "must" courses in the curriculum, students select two elective courses in their second year. The elective courses offered by the Department aim not only at broadening the student's knowledge on certain topics, but also serve to guide the student into a deeper understanding of various options in the field of business administration.

At the end of their first year students are required to successfully complete a 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

Autumn Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAD 111</td>
<td>Principles of Management</td>
<td>3</td>
</tr>
<tr>
<td>CAD 113</td>
<td>Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>CAD 125</td>
<td>Business Mathematics</td>
<td>4</td>
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<tr>
<td>GE 100</td>
<td>Orientation</td>
<td>1</td>
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<tr>
<td>CTP 191</td>
<td>Introduction to Computers</td>
<td>4</td>
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<tr>
<td>ELS 101</td>
<td>English for Professional Purposes I</td>
<td>4</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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Spring Semester

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<td>CAD 114</td>
<td>Principles of Marketing</td>
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</tr>
<tr>
<td>CAD 126</td>
<td>Statistics</td>
<td>3</td>
</tr>
<tr>
<td>CAD 128</td>
<td>Principles of Financial Accounting</td>
<td>3</td>
</tr>
<tr>
<td>CAD 231</td>
<td>Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>CTP 192</td>
<td>Introduction to Computer Applications</td>
<td>4</td>
</tr>
<tr>
<td>ELS 102</td>
<td>English for Professional Purposes II</td>
<td>4</td>
</tr>
<tr>
<td>ELS 104</td>
<td>Advanced English II</td>
<td>4</td>
</tr>
<tr>
<td>TURK 102</td>
<td>Turkish II</td>
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</tr>
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SECOND YEAR

Autumn Semester

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CAD 200</td>
<td>Industrial Training</td>
<td>-</td>
</tr>
<tr>
<td>CAD 211</td>
<td>Organizational Behavior</td>
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</tr>
<tr>
<td>CAD 218</td>
<td>Marketing Management</td>
<td>3</td>
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<tr>
<td>CAD 225</td>
<td>Management Science</td>
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<tr>
<td>CAD 229</td>
<td>Principles of Managerial Accounting</td>
<td>3</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>
<td>2</td>
</tr>
<tr>
<td>Restricted Elective (1)</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>
COURSE DESCRIPTIONS

CAD 111  Principles of Management
Introduction to management: functions, concepts, principles, techniques and practices. Understanding the
manager’s role. Principles of managerial practices. The management process: planning, organizing, leading and
controlling. The environment of management: social responsibility and ethics. Understanding an organization.
Credit units: 3. 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. Aut (N. Durubal) Spr (A. Durukal)

CAD 114  Principles of Marketing
Fundamental concepts in marketing. Strategic planning and the marketing process. Marketing Mix (price-
Prerequisite: CAD 111. Spr (M. Ferendeci-Özgödek)

CAD 125  Business Mathematics
Sets and real numbers. Linear equations, application of equations, inequalities, functions and graphs. Straight
lines and systems of equations. Non linear functions and applications, financial mathematics, matrix algebra.
Differentiation and its applications. Credit units: 4. Aut (A. Durukal) Spr (A. Durukal)

CAD 126  Statistics
Summarizing data with tabular and graphical approaches. Measures of central tendency and dispersion. Basic
principles of probability. Test of hypotheses. Computer applications with statistical software packages. Credit
units: 3, Prerequisite: CAD 125. Spr (S. Kadayıfcılar)

CAD 128  Principles of Financial Accounting
Definition and functions of accounting. Financial statements, balance sheet, income statement. Asset, liabilities
and owner’s equity. Expenses and revenues. Effect of business transactions upon the B/S and I/S. The ledger, the
journal. Double-Entry Accounting, recording transactions in the ledger accounting, the trial balance. Adjusting
entries, closing entries. Bank reconciliation. Credit units: 3. 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,
Prerequisite: CAD 111. Aut (M. Ferendeci-Özgödek)

CAD 211  Organizational Behavior
Understanding levels in OB: Individual level, group level and organization system level. Foundations of indi-
vidual 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, Prerequisite: CAD 111. Aut (M. Ferendeci-Özgödek)

CAD 212  Production Management
Quality management, TQM, SPC, ISO9000, capacity planning and facility location, inventory systems for inde-
dependent demand, inventory systems for dependent demand (MRPII), materials and purchasing management,
supply chain management. Credit units: 4, Prerequisite: CAD 125. Spr (S. Kadayıfcılar)

CAD 216  Human Resources Management
The nature of human resources management. Staffing the organization. Employee training and development.
Developing careers. Motivation and job design. Evaluating employee performance. Maintaining an effective and
efficient work environment. Credit units: 3, Prerequisite: CAD 211. Spr (M. Ferendeci-Özgödek)
CAD 218  Marketing Management
The role of marketing in organizations and society. Marketing strategy, strategic marketing planning, implementa-
tion and decision making processes. Measuring and forecasting market opportunities. Personal selling, sales
management and global marketing.  Credit units: 3, 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, Prerequisite: CAD 111 and CAD 125. Aut (A. Durukan)

CAD 229  Principles of Managerial Accounting
Comprehensive study on financial and managerial accounting. Includes in-depth study of cost volume relation-
ship. Cost volume profit, analysis of relevant cost and income analysis for decision making process. Budgeting
for profit planning. Standard cost and variances analysis. Job-costing systems, process-costing systems. Activity
based costing.  Credit units: 3, Prerequisite: CAD 128. Aut (S. Sevin)

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, Prerequisite: CAD 113. Aut (C. Aydogmus) Spr (A. Durukan)

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
Businass. Credit units: 3, Prerequisite: CAD 111. Aut (C. Aydogmus)

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, 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. Aut (E. M. Köseerisjąlu)
COMPUTER TECHNOLOGY AND PROGRAMMING


Part-time: S. Azgur, A. B. İnân.

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

CTP 101 Introduction to Programming
CTP 105 Programming Environment
CTP 127 Mathematics I
ELS 101 English for Professional Purposes I
ELS 103 Advanced English I
TURK 101 Turkish I

Spring Semester

CTP 102 Elementary Data Structures
CTP 106 Business Applications
CTP 108 Computer Programming for Business
CTP 128 Mathematics II
ELS 102 English for Professional Purposes II
ELS 104 Advanced English II
TURK 102 Turkish II

SECOND YEAR

Autumn Semester

CTP 200 Industrial Training
CTP 201 Object Oriented Programming I
CTP 203 Operating Systems
### COURSE DESCRIPTIONS

**CTP 101 Introduction to Programming**
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. Arrays. Functions and modular programming. (Six hours lecture, four hours lab) **Credit units:** 6. **Aut (A. Solak-Örkçüoğlu) Spr (A. Solak-Örkçüoğlu)**

**CTP 102 Elementary Data Structures**

**CTP 105 Programming Environment**
This course aims to familiarize the 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, UNIX, and DOS 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:** 4. **Aut (L. Russell-Dağ) Spr (L. Russell-Dağ)**

**CTP 106 Business Applications**
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. The lessons will be held in computer labs. **Credit units:** 4. **Prerequisite: CTP 105. Aut (S. Uğurlubilek) Spr (S. Uğurlubilek)**

**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. **Prerequisite: CTP 101 and CTP 105. Aut (T. Baycan) Spr (T. Baycan)**

**CTP 127 Mathematics I**
Set theory and operations on sets; Relations and functions. Elements of logic. Logic circuits. Induction and recursion. Number theory; primes, factorization, divisibility. Boolean algebra. **Credit units:** 4. **Aut (H. Yavuz) Spr (H. Yavuz)**

**CTP 128 Mathematics II**
Permutations, combinations and probability of discrete events. Arrays and matrices. Linear algebraic equation systems. Graphs and their representation in computing. Theory of trees, rooted trees, tree traversals and applications. Finite state machines, languages and automata. **Credit units:** 4. **Prerequisite: CTP 127. Aut (H. Yavuz) Spr (H. Yavuz)**

**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. **Aut (T. Baycan, L. Russell-Dağ, S. Uğurlubilek) Spr (L. Russell-Dağ)**
CTP 192 Introduction to Computer Applications

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 forty-five day training period is undertaken during the summer brake following a successful completion of the first year. Credit units: None, Prerequisite: CTP 101 and CTP 105. Aut (F. Yürüten) Spr (A. Solak-Orkcüoğlu)

CTP 201 Object Oriented Programming I

CTP 202 Object Oriented Programming II
Further development of object oriented concepts and techniques in Java. Exceptions. Streams. Graphics programming. Application and applet programming. Threads. Case studies. (Four hours lecture, three hours lab.) Credit units: 5, Prerequisite: CTP 201. Aut (C. U. Ayfer) Spr (Staff)

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 environment and shell-programming. (Four hours lecture, three hours lab.) Credit units: 5, Prerequisite: CTP 102 and CTP 105. Aut (F. Yürüten) Spr (F. Yürüten)

CTP 204 Networking Principles and Applications

CTP 205 File Systems
Basic concepts and characteristics of files and keys. Logical and physical I/O concepts. Sequential, random, secondary access methods. Sequential, relative, direct, indexed file organizations. Tree structured (B-trees and B+–trees) file organizations. Multilist and inverted files. General performance considerations. Credit units: 4, Prerequisite: CTP 108. Aut (N. Fenmen) Spr (N. Fenmen)

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, Prerequisite: CTP 205. Aut (F. Yürüten) Spr (F. Yürüten)

CTP 207 Computer Architecture

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, Prerequisite: CTP 203. Aut (H. Özmen) Spr (H. Özmen)

CTP 209 Systems Development
CTP 210  Term Project
Specification, analysis, design, 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, Prerequisite: CTP 201 and CTP 209. Aut (R. Ayfer) Spr (R. Ayfer)

CTP 291  Computer Applications for Business I

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 and restaurants. 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 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

Aysçe Baş 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 Çınar, 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 Karamullaoğlu, 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, Instructor  

Kamer Rodoplu, Instructor  

Nazimuddeen M. Saleem, Instructor  

Wolfgang Schmelcher, Instructor  
Diploma, Master Chef in Cooking, Culinary College, Claw-Germany, 1981. Food production techniques, food production.

Esin Şenol, Instructor  
B.S., Food Engineering, Middle East Technical University, 1989. Food sciences, cost control.

Cem Tarhan, Instructor  

Engin Türel, Instructor  

PART-TIME ACADEMIC STAFF


Aydan Ercan, Ph.D., Dietetics and Nutrition, Hacettepe University, 1998.

S. Gül Güneş, M.S., Landscape Architecture, Ankara University, 1996.

Esra İsfendiyar, B.A., Administrative Sciences, Middle East Technical University, 1986.

H. Şibay Tuğsavul, M.S., Demography, Hacettepe University, 1980.
TOURISM AND HOTEL ADMINISTRATION


Vocational Program in Tourism and Hotel Administration

The Tourism and Hotel Administration program is designed to provide students with relevant education on hotel and restaurant 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

Autumn Semester
THS 105 Introduction to Business .................................................. 3
THS 121 Business Mathematics ...................................................... 2
THS 131 Introduction to Tourism Industry ........................................ 3
THS 161 Health Studies ................................................................. 1
THS 162 Behavior and Etiquette .................................................... 1
GE 100 Orientation ................................................................. 1
BM 100 Keyboarding ................................................................. 2
BIM 181 PC General Applications ................................................. 3
ELS 101 English for Professional Purposes I ................................. 4
ELS 103 Advanced English I .......................................................... 4
TURK 101 Turkish I ................................................................. 2
Second Foreign Language* ............................................................ 3

(Students take either ELS 101 or ELS 103)

Spring Semester
THS 110 Nutrition, Hygiene and Safety ........................................... 3
THS 126 Food and Beverage Operations ......................................... 3
THS 138 World Geography .......................................................... 3
THS 148 Front Office Operations ................................................... 3
THS 150 Basic Accounting ............................................................ 3
ELS 102 English for Professional Purposes II .................................. 4
ELS 104 Advanced English II ....................................................... 4
TURK 102 Turkish II ................................................................. 2
Second Foreign Language* ............................................................ 3

(Students take either ELS 102 or ELS 104)

SECOND YEAR

Autumn Semester
THS 200 Summer Training ........................................................... -
THS 221 Food Production I ........................................................... 2
THS 223 Food and Beverage Service .............................................. 3
THS 225 Hospitality Industry Accounting ...................................... 3
THS 256 Marketing ................................................................. 3
ELS 203 Advanced English III ..................................................... 2
HIST 201 History of Turkish Republic I ........................................ 2
Restricted Elective ................................................................. 3
Second Foreign Language* ............................................................ 3

See note for ELS courses **
Spring Semester
THS 220 Food and Beverage Cost Control ................................................. 3
THS 222 Food Production II ............................................................... 4
THS 233 Travel Agency Operations .................................................... 3
THS 269 Co-Op Management Application ........................................ 2
ELS 204 Advanced English IV ............................................................ 2
HIST 202 History of Turkish Republic II ........................................... 2
Restricted Elective ................................................................. 3
Second Foreign Language* .......................................................... 3

See note for ELS courses **

RESTRICTED ELECTIVES
THS 239 Tourism Geography of Turkey .............................................. 3
THS 241 Human Resources Management ........................................... 3
THS 245 Purchasing ........................................................................ 2
THS 258 Legal Aspects of Tourism .................................................. 3
THS 260 Supervision ................................................................. 3
BIM 282 Hospitality Industry Computerization .................................. 3

* 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. 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. 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. 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. Aut (G. Karamullağlu) 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. Aut (G. Karamullağlu) Spr (E. Gürel)*

THS 148  Front Office Operations  
Analyzes and discusses the various areas of the front office stressing security, communication, statistics, layout, design, front office equipment, and guest-relations skills. The course also attempts to find solutions to common operational problems of the front office such as over-booking, late charge, lost charge, lost luggage, and skippers.  
*Credit units: 3. Aut (T. Ertan) Spr (J. B. M. Chafra)*

THS 150  Basic Accounting  
Familiarizes the 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. Aut (N. Örer) Spr (N. Örer)*

THS 161  Health Studies  
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. Aut (T. Alemdar) Spr (Z. İ. Ertana)*

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 seventy-five (75) work days, takes place during the summer period.  
*Credit units: None. 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. 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. Aut (W. Schmelcher) 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. Prerequisite: THS 221. Aut (H. C. Kuchlein) Spr (W. Schmelcher)*

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. Aut (M. Songur) Spr (Staff)*

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. Prerequisite: THS 150 or THM 106. Aut (J. B. M. Chafra) Spr (H. Çınar)*

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.*
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. Spr (G. Karamulla)

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. Aut (P. Oztin) Spr (Staff)

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. Aut (A. B. Collins) Spr (A. B. Collins)

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. Aut (W. Schmelcher) Spr (H. C. Kuchlein)

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. Aut (E. Gurel) Spr (N. M. Saleem)

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. Aut (C. Tarhan) Spr (Staff)

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. Aut (Y. Erguven) Spr (Y. Erguven)

THS 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. Aut (E. Turel) Spr (E. Turel)
PHYSICAL EDUCATION UNIT

Hayri Özkan, Ed.D., Director

The mission of the Physical Education and Sports Center is to provide the environment and programs through which the students of Bilkent University can participate and attain a healthy lifestyle. By participating in quality health, physical education and sports programs the students enrich their campus lives and develop to their fullest individual capacity.

The Physical Education and Sports Center does not offer any degree in physical education. However, the students may take up to three courses for credit over and above their departmental requirements. In addition, grades will appear on transcripts and will effect their GPA and CGPA. Students may choose from a rich selection of physical education and sports courses offered every semester.

ACADEMIC STAFF

Kağan Eynak, Instructor
B.S., Physical Education and Sports, Gazi University, 1984.
Filiz Gür, Instructor
B.S., Physical Education and Sports, Gazi University, 1986.
Hayri Özkan, Instructor
Alper Üğraş, Instructor

PART-TIME ACADEMIC STAFF

Mesut Atay, B.S., Physical Education and Sports, Middle East Technical University, 1994.
Sinan Can Aydın, M.S., Physical Education and Sports, Gazi University, 2002.
Selim Bülbül, B.S., Physical Education and Sports, Middle East Technical University, 2000.
Yıldırı Şahin Kanat, B.S., Physical Education and Sports, Middle East Technical University, 1994.
Ömer Mihaliççık, B.S., Physical Education and Sports, Gazi University, 1979.
İlyas Okan, M.S., Physical Education and Sports, Gazi University, 1994.
Filiz Öztürk, M.S., Physical Education and Sports, Middle East Technical University, 2002
Meneşe Öztürk, B.S., Physical Education and Sports, Gazi University, 1998.
Seyfi Savaş, M.S., Physical Education and Sports, Gazi University, 1992.
Halim Şener, M.S., Physical Education and Sports, Gazi University, 1986.
Bülent Uzunoglu, 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. Aut (S. C. Aydın, A. Üğraş) Spr (S. C. Aydın, S. Bülbül, H. Şener, A. Üğraş)

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. Spr (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. Aut (İ. Gökrelli) Spr (İ. Gökrelli, A. Üğraş)

PE 130  Basketball
Students learn basic techniques (receiving, passing, dribbling, shooting), rules and strategies of the game. Credit units: 1. Aut (K. Eynak, S. Savaş) Spr (K. Eynak, S. Savaş)
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. Aut (Ö. Mihaliççik) Spr (Ö. Mihaliççik)

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. Spr (Ö. Mihaliççik)

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. Spr (M. Ayhan)

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. Spr (Ö. Mihaliççik)

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. Spr (F. Gür, B. Uzunoğlu)

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. Aut (Y. Ş. Kanat) Spr (M. Atay, Y. Ş. Kanat, Ö. Mihaliççik)

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. 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. Spr (M. Öztürk)
GENERAL COURSES

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.

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.

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. Aut (H. Özaktas)

GE 308 Thermodynamics

GE 390 Traffic and Society
The objective of this course is to provide students with a 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.

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. Aut (T. Reyhan)

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. Spr (T. Reyhan)
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<td>Voc. Sch. of Comp. Tech. and Office Mgmt. / Table d'hote Cafeteria</td>
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<td>D8, D9, E8, E9</td>
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