

BLG 252E Object Oriented Programming

Spring 2017

		CRN: 22164	CRN: 22165	CRN: 22167
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Classrooms:		EEB 5107	EEB 5303	EEB 5305
Office Hours:		Monday 8:30–9:30 Tuesday 8:30–9:30	Monday 15:30–17:30	Friday 13:30–15:30
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Course site: <http://ninova.itu.edu.tr/Ders/21/Sinif/19522>

Lecture time: Monday 9:30AM - 12:30PM

Description: The course introduces concepts of object-oriented programming. It also presents tools, structure, syntax, and basic OOP techniques for designing well-formed programs. We will study concepts such as classes, objects, methods, inheritance, polymorphism, exception handling, UML diagrams, and templates.

Prerequisites: BIL 105E with a grade of at least CC is a prerequisite. You must know the C++ language and have experience in writing programs.

Recommended texts:

- *Thinking In C++ vol. 1 and vol. 2*, Bruce Eckel, Prentice-Hall, 2000. (<http://mindview.net/Books/TICPP/ThinkingInCPP2e.html>)
- *OOP Lecture Notes*, Feza Buzluca, 2010.

Homework: There will be three (3) programming assignments. You will be given 2 weeks to complete each assignment and you will submit your solution through Ninova. Programming is a discipline that you learn by doing, not just by listening to a lecturer. Therefore, doing the programming assignments is crucial to performing well in this class. Each assignment will have a clearly stated due date and time. **NO LATE ASSIGNMENTS WILL BE ACCEPTED.** Be aware that Ninova's system clock may not be synchronized with your watch, your computer's clock, etc. Do not risk leaving your submission to the last few minutes. If you are having considerable difficulty with the early assignments, this is a sign that you may be in over your head - you should come see us immediately. The assignments will require a substantial time commitment over several days (several hours per week outside of class should be expected). Be sure to budget sufficient time to complete assignments before the deadline. If you cannot finish an assignment on time, then submit whatever you have finished before the deadline to receive some partial credit. You are expected to make an honest, independent attempt to solve and turn in your solutions for each homework. Students who do not want to put the required effort into the homework assignments are advised not take this course. Homework should be your own work. Do not look at other students' codes, as this may cause your program to be too similar to theirs. Be aware that your homework assignments will be checked using plagiarism detection software.

Attendance: It is imperative that you come to each lecture and pay attention. You are not allowed to work on your laptop or read anything not related to the class during the lecture. You are required to attend 70% of the lectures in order to be allowed to take the final exam (Since

this semester has 14 weeks, you have to attend at least 10 lectures). Those who do not meet the attendance requirement will fail the course with a grade of VF (Article 23, Undergraduate Education Regulations, <http://www.sis.itu.edu.tr/tr/yonetmelik/yonetmelik.html>). Attendance may be taken at any point in the lecture. No additions can be made to the attendance list after that point. If you do miss class, it is your responsibility to find out (from a classmate) what you missed, including class notes, announcements, and worksheets. No make-up exams will be given. Absences from a midterm or final will result in a grade of zero for that exam. Check the exam dates and make sure you will be able to attend class on exam dates. If not, do not take this course.

Evaluation: The distribution of percentages for the course grade will be as follows:

Homework	30 %
Midterm	30 %
Final Exam	40 %

The grade you are given, either on an individual exam or assignment or as your final grade, is not the starting point of a negotiation. It is your grade unless a concrete error has been made. Do not come to see us or the TAs to ask for a better grade because you want one or you “feel you deserve it.” Come only if you can document a specific error in grading or in recording your scores.

Remember that the most important characteristic of any grading scheme is that it be fair to everyone in the class. Keep this in mind if you are thinking of asking, for example, for more partial credit points on a problem. The important thing is not the exact number of points that were taken off for each kind of mistake. The important thing is that that number was the same for everyone. So, it cannot easily be changed once the grading is done and the exams or assignments have been returned.

Rules for being allowed to take the final exam: In addition to meeting the attendance requirement, students must meet the following criteria to take the final exam:

- Students must turn in 2 out of 3 assignments (and have to get a grade higher than 20 on each project), and get at least 25 on the midterm.
- Average of homework assignments must be at least 25.
- Weighted average of homework and the midterm should be at least 50.

Any student who gets a grade lower than the required grade on any of these assessments will fail the course with a grade of VF and not be allowed to take the final exam.

Announcements on course site and by e-mail: You are expected to check the Ninova web site and your ITU e-mail for homework and announcements. In addition, you are responsible for all announcements that may be made on the course web site and in class (that may or may not be included in this syllabus).

Use of e-mail: You cannot expect to get last-minute help on assignments by e-mail. More generally, you cannot expect to get detailed answers to technical questions by e-mail. Students are encouraged to discuss important matters with the instructor and the teaching assistants in person, typically during office hours. In e-mail, include your name and the number of the assignment or exam in question. Please include your name in the “From:” line of the email message, not just your email address. E-mail is a valuable tool for communicating with the instructor and the teaching assistants. But, be sure to use it properly, and follow the rules of good email etiquette. Although it is easy for you to dash off an email question, it takes time to answer it. In general, you should not ask e-mail questions to which you can find the answer somewhere else (e.g., class notes, Web page).

Academic honesty: You are expected to read the Undergraduate Education Regulations (<http://www.sis.itu.edu.tr/tr/yonetmelik/yonetmelik.html>) and ITU Academic Honesty Pledge (<http://www.sis.itu.edu.tr/tr/yonetmelik/AkademikOnurSozuEsaslar.html>) and behave accordingly. Cheating on the exams or on homework will be punished in the most severe manner, resulting in failing the course, as well as disciplinary action. Your homework assignments MAY NOT include any copy-paste material (from the Internet or from someone else’s paper/thesis/project) EVEN IF they are referenced. All work must be your own and in your own words.

Every piece of work that you turn in with your name on it must be yours and yours alone. No co-working is allowed on any test, project, or programming assignment. You must not turn in work that is not yours. Specifically, you are not allowed to copy someone else's program code. This is plagiarism. You must not enable someone else to turn in work that is not his or hers. Do not share your work with anyone else. Make sure that you adequately protect all your files. Be aware that your homework assignments will be checked using plagiarism detection software.

Midterm exam: The midterm will be given on **Monday, April 3, 2017**. No make-up exams will be given. Absence from the midterm will result in a grade of zero for that exam. Make sure you will be able to attend class on the exam date. If not, do not take this course.

Final exam: The final exam will be held during the finals weeks (May 29-June 9, 2017), at the time and location determined by the University. Absence from the final exam will result in a grade of zero for that exam. Check the exam date as the finals weeks approach and make sure you will be able to attend class on the exam date. If not, do not take this course.

Last day for add/drop: The add/drop period ends on Friday, February 10, 2016. You may withdraw from the course with your adviser's approval between February 13-17, 2017. There is no way to drop or withdraw from a course after February 17, 2017!

Tentative course schedule (subject to change):

Week	Day	Date	Topic	Assignments and Recitations
1	Mon	6-Feb	Introduction	
2	Mon	13-Feb	C++ as a Better C	
3	Mon	20-Feb	Classes and Objects	
4	Mon	27-Feb	Constructors, Destructors	
5	Mon	6-Mar	Constant Obj. and Const Mem. Funct.	
6	Mon	13-Mar	Operator Overloading	HW1 assigned
7	Mon	20-Mar	Inheritance	Recitation 1
	Mon	27-Mar	Spring Break	HW1 submission
8	Mon	3-Apr	Midterm Exam	
9	Mon	10-Apr	Special Member Functions and Inheritance	HW2 assigned
10	Mon	17-Apr	Polymorphism	
11	Mon	24-Apr	Exceptions Templates	HW2 submission, HW3 assigned
12	Mon	1-May	Holiday	
13	Mon	8-May	UML - STL	Recitation 2, HW3 submission
14	Mon	15-May	STL, Java (Tentative)	Recitation 3
	?	29-May-9-Jun	Final Exam	