

CMPE 150
Introduction to Computing (C)
Spring 2015

Text Book:

Deitel & Deitel, C How to Program, Prentice Hall

Reference Book:

Kernighan & Ritchie, The C Programming Language, Prentice Hall

Web Site:

<http://www.cmpe.boun.edu.tr/courses/cmpe150>

Instructors: Tuna Tuğcu

Office: ETA 43

Phone: +90 212 359 7611

E-mail: tugcu AT boun.edu.tr

Office hours: WTh 13

Arzucan Özgür

E-mail: arzucan.ozgur AT boun.edu.tr

Office: ETA 18

Phone: 0212-359-7226

Office hours: M 34 or by appointment

Topics:

- 1- Introduction,
printf, scanf,
variables,
operators (+-*/%),
data types (int, float, char)
- 2- Constants
assignment type conversions,
type casting,
increment-decrement operators (++,--) and post-increment pre-increment,
type casting
- 3- Conditionals, if,
nested if,
logical operators,
switch

- 4- Loops
while,
for,
do-while
- 5- Nested loops,
break,
continue
- 6- Functions,
scope,
macro-substitution
- 7- Pointers,
variable parameters (aka. call by reference or pointers as function arguments)
- 8- Arrays
- 9- Assaing arrays to functions,
sorting and binary search
- 10- Strings
- 11- Multi-dimensional arrays
- 12- Structs

Grading:

- 10% PS and LAB attendance,
- 25% midterm 1
- 30% midterm 2
- 35% final

Grading for repeating students:

No mandatory attendance for repeating students

- 28% Midterm 1
- 33% Midterm 2
- 39% Final

Additional Notes:

PS attendance will be taken. You are strongly advised to attend the PS hours
During the PS hours, questions will be solved by the assistants and the students
simultaneously, which gives the students both practical understanding of
programming issues and programming practice.

Lab attendance will be taken. You are strongly advised to attend the labs.

In the lab sections:

- Basic compiler use is taught.
- Students are asked to solve questions which are covering that weeks topics.
- Students have opportunity to get help from the lab assistant and lab student assistants.
- Since exams are computer-based, lab sections are very good opportunities to

practice for the exams.

Projects:

There will be 10 projects (weekly), **PROJECTS ARE VERY SIMILAR TO EXAM QUESTIONS:**

- Projects 1,2,3,4: first midterm
- Projects 5,6,7,8: second midterm
- Projects 9,10: final

Project Grading:

- All projects are *optional*. We will grade them, but the grade will not count towards your final letter grade.
- You are *strongly suggested* to do and submit the projects by the deadline.
- We will grade your projects and provide you feedback, which will be very useful for the exams.