CMPE 150

Introduction to Computing (C)

Fall 2015

Text Book:
Deitel & Deitel, C How to Program, Prentice Hall

Reference Book:
Kernighan & Ritchie, The C Programming Language, Prentice Hall

Web Site:
There is no web site for this course. All course content will be managed through Teaching.Codes system. You will have access to Teaching.Codes when you register the course.

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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- Passing arrays to functions,
sorting and binary search
10- Strings
11- Multi-dimensional arrays
12- Structs

Grading:
- 10% PS and LAB attendance (with quizzes)
- 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:

Teaching.Codes system requires that you attend the PS and lab of the section you are registered to. Therefore, a mix-and-match of the PS and labs is not allowed anymore. If you do not attend the PS or lab of the section you are registered to, you will be recorded as absent.

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 and Eclipse use is taught.
- Students are asked to solve questions, which cover that week's topics.
- Students have the opportunity to get help from the lab assistant and lab student assistants.
- Since the exams are computer-based, PS/lab sections constitute a very good opportunity to practice for the exams.

Projects:

You will be assigned several projects. **THE PROJECTS ARE VERY SIMILAR TO THE EXAM QUESTIONS:**

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.