

CMPE 150
Introduction to Computing (C)
Spring 2016

Text Book:

The lecture notes and all content are available through Teaching.Codes system.

Reference Book:

- Kernighan & Ritchie, The C Programming Language, Prentice Hall
- Deitel & Deitel, C How to Program, 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% Quizzes
- 25% Midterm 1
- 30% Midterm 2
- 35% Final

Additional Notes:

Note that there are some significant changes this semester:

- **Grading policy is the same for both new students and repeating students, i.e., the repeating students must also attend the labs and take the quizzes.**
- **The assistants will not cover the topics during the PS/Lab hours anymore. They will directly solve examples. You must attend the lecture to learn the topic.**
- **There is no resit exam.**

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 in the quiz.

You are strongly advised to attend the PS/Lab hours. During the PS/Lab 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. In the PS/Lab hours:

- 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.