Course Coordinator: Dr. R. Wenger  
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COURSE SUMMARY: Introduction to computer programming and to problem solving techniques using computer programs with applications in engineering and the physical sciences; algorithm development; programming lab experience.

PREREQUISITE: Math 151. (No programming or C++ experience required.)


CARMEN: [https://carmen.osu.edu](https://carmen.osu.edu)

GENERAL OBJECTIVE: To provide the student with the basics of the C++ programming language:

- Be familiar with using basic C++ constructs; declarations and various statements including loops and conditionals.
- Be familiar with using C++ functions;
- Be familiar with using C++ arrays;
- Be familiar with search and sorting algorithms;
- Be exposed to algorithms and analysis;
- Be exposed to using C++ structures and classes;
- Be exposed to using file input/output.
GRADING: Programming assignments 30%, Labs 15%, Midterm 25%, Final 30% (or Midterm 15%, Final 40% whichever is greater.)

Students are expected to attend class regularly. In the event that a student must miss a class, the student is responsible for finding out what assignments were made, what due dates were announced, and what material was covered.

LATE POLICY: -10% per day

LABS: Lab classes meet in 112A Caldwell or 310 Baker Engineering at regular meeting times on Tuesdays. Lab assignments can be downloaded from carmen and are always due by 11:59 p.m. on Thursday.

PROGRAMMING ASSIGNMENTS: There will be four to five programming assignments which will be due one or two weeks from the assigned date. The electronic version must be submitted by 11:59 p.m. of the due date.

ACADEMIC MISCONDUCT: All coding for every one of the programming assignments and labs is to be done individually. DO NOT LOOK AT OR COPY anyone else’s code. DO NOT SHARE your code with anyone else. The only code you can copy is what you see in the book and what I give to you in class. If you are stuck on an assignment or lab, please visit me or the grader during office hours. Suspected cases of academic misconduct will be filed with the Committee of Academic Misconduct.