CSC 131 - 005
Introduction to Computer Science

CI 1006: 11:00 - 11:50 a.m. TTh
CI 2006: 4:00 - 5:40 T

Eric Patterson, Ph.D.
CIS 2031: Office Hours 1:00 p.m. - 2:00 p.m. TTh; 10:00 a.m. - 12:00 p.m. W; or by appointment.
(910) 962 - 7701
patterson@uncw.edu

Course Description:
Problem solving methods and algorithms in a modern high-level programming language. Introduces one or more programming environments. Emphasis on a programming style and the design, coding, and testing of complete programs. Recommended primarily for computer science majors. A grade of ‘C’ (2.00) or better is required for taking any course for which CSC 131 is a prerequisite. Satisfies University Studies IV: Building Competencies/Quantitative and Logical Reasoning. Prerequisites: MAT 111 or 115

Required Text:
Introduction to Computer Science Using Python: A Computational Problem-Solving Focus by Charles Dierbach

Grading (standard +/- letter grade scale):
Participation: 5%
Programming labs and exercises: 30%
Two tests: 40%
Final Exam: 25%

Student Learning Outcomes:
1. Students demonstrate an understanding of basic programming concepts including data types, variables, modularity, parameters, conditional statements, iteration, and arrays.
2. Students demonstrate program-development techniques to describe and understand a problem statement, thinking through inputs, processing, and outputs to lead to problem representation and coding.
3. Students demonstrate the ability to use program control structures such as conditional statements and iteration.
4. Students develop and use algorithms to solve a variety of problems such as those related to text manipulation, statistical calculation, array usage, and media processing.
5. Students practice modular programming by developing, debugging, and applying modules within a larger program.
6. Students demonstrate the ability to use software libraries.
7. Students demonstrate the ability to use basic file input and output.
8. Students demonstrate the ability to use software development tools from the command line to the integrated development environment.

Course Policies:
Students are individually responsible for keeping current with course material, assignments, and timely submission of work.

Academic honesty in all work is required for a passing grade. For programming assignments, this precludes copying or sharing code in any form.

Unless special circumstances are involved, more than three absences will result in class failure.

There will be no make-up labs nor tests. Contact in advance if either of these must be missed.

This syllabus and course materials may be subject to change with reasonable notice.

All other UNCW standard syllabi announcements are in effect.

CSC 131: Introduction to Computer Science, Spring 2016