Computer Science 111

Fundamentals of Programming 1

General Information

Instructor: Kefu Lu
Office: Parmly 412
Email: klu@wlu.edu
Course Page: http://canvas.wlu.edu
Hours:

	Time	Days of the Week
Class (Parmly 405)	9:45am-10:45am	Monday, Wednesday, Friday
Lab (Parmly 405)	8:30am - 11:30am	Tuesday
Office Hours (Parmly 412)	3:00pm - 5:00pm (Prefer 3:00pm-4:00pm)	Monday, Tuesday, Wednesday, Friday

Other office hours also available by appointment.

Brief Overview

This is an introductory course in programming and problem solving. Topics include

- the study and implementation of algorithms for solving problems
- an introduction to syntax, semantics, and pragmatics of the Python programming language
- a survey of various types of programming applications such as numerical computation, text processing, graphics, image processing, and user interface

Classroom work will consist of lecture, discussion, and lab experimentation. Written work will consist of weekly programming projects, weekly quizzes, and two exams.

Course Objectives

After taking this course, you should be able to
- apply your problem solving skills to a wide variety of computational problems
- understand the syntax and semantics of the Python programming language
- describe a program's functionality in plain English

- detect, diagnose, and fix errors in a program, using systematic testing and debugging techniques
- understand the ethical and historical context of computing
- undertake further study of computer science

Readings

The following textbook is required:

Lambert, Fundamentals of Python: First Programs, **Second edition** (Course Technology, 2019, ISBN-13: 978-1-337-56009-2).
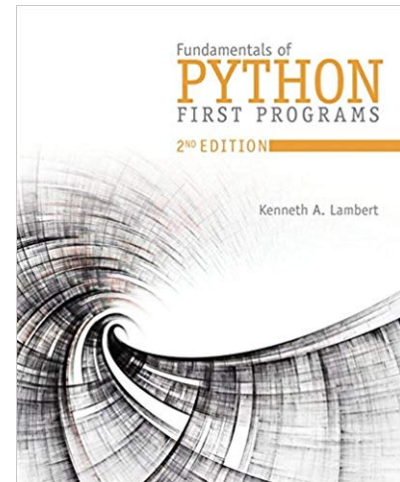
Grading

The written work for the course will consist of:
- Programming projects   (50%)
- Weekly quizzes   (15% Lowest score is dropped.)
- Exams   (35%)
- Participation   (2%)

Programming projects:
- Programs turned in which do not execute due to syntax errors will receive NO credit.
- Projects are **formally** due at the end of *Friday*.
- There is a *one day* grace period until the end of *Saturday* in which submissions are accepted with no penalty.

Attendance and Classroom Etiquette

- It is very important that you attend lectures. There will be considerable information given in class that is not available elsewhere.
- Attendance in lab is required.
- Prompt arrival at labs and lectures is expected.
- The use of laptops and mobile computing devices are permitted during class so long as they are used responsibly (taking notes, etc...)

Final Exam Policy

The final exam for this course will be given during the final exam week. You can take this exam during any of the regularly scheduled exam periods that week. You must supply an exam envelope to the instructor or the department administrative assistant no later than noon on the last day of class. You must specify a provisional day and time on the envelope, which you are free to change on the clipboard provided outside the door of Parmly 412 any time that week. Email or phone requests to reschedule will not be accepted.

The exam will be given in Parmly 405, and you should arrive promptly before the appointed time. If you are more than 15 minutes late, you will have to reschedule your exam. If you are more than 15 minutes late to the last exam period on Friday afternoon, you will receive a grade of 0 on your exam.

Students who have approved academic accommodations must make arrangements to use those accommodations directly with the instructor no later than the last day of class. Students approved for extra time will receive that time at the tail end of the morning exam period or before the beginning of the afternoon exam period (for example, ending at 1:30 PM for a morning exam or beginning at 12:30 PM for an afternoon exam). Students approved for a low-distraction testing location should reserve that space during the last week of classes (following instructions distributed by the Director of Disability Resources, Lauren Kozak).

Academic Integrity

The quizzes and the final exam should be done individually and pledged.

Although you may discuss programming problems among yourselves, I expect that your programs to be your own work unless otherwise specified (such as when you are instructed to do **pair programming**). You *may* adapt code from the slides or from the textbook for the course. If you do so, cite it accordingly at the top of your code in a comment.

Otherwise, I expect you to *not* use the work of your classmates, former students, friends, or anyone else in writing your programs.

Accommodations

Washington and Lee University makes reasonable academic accommodations for qualified students with disabilities. All undergraduate accommodations must be approved through the Office of the Dean of the College. Students requesting accommodations for this course should present an official accommodation letter within the first two weeks of the (fall or winter) term and schedule a meeting outside of class time to discuss accommodations. It is the student's responsibility to present this paperwork in a timely fashion and to follow up about accommodation arrangements. Accommodations for test-taking should be arranged with the professor at least a week before the date of the test or exam.