Department of Mathematics and Computer Science
Adelphi University

CSC 160-02 Fall 2015
Computer Programming for Non-Majors
Prof. A. Wittenstein

Contact Information
Office Location: Post Hall 103   Course Web Page: http://www.adelphi.edu/~wi16133/csc160/f15
Email: Wittenstein@adelphi.edu   Office Hours: Mon/Wed 4-4:15p & Mon/Wed 5:40-6:00p, in Science 227
Phone: 516-877-4480 (dept. office)   Other days/times by appointment, in Post 103

Schedule of Class Meetings
Mon/Wed 4:15-5:40pm, Science 227 (Mon 8/31 → Mon 12/14)
--No Adelphi Classes on Mon 9/7, Mon 10/12, Wed 11/25.
--Also, this class does not meet on Mon 9/14, Wed 9/23.
--Wed 12/16: Final Exam – from 3:30-5:30pm

Course Description
There are no prerequisites, as this course is intended for students with little or no experience in computer programming. It gives students a feel for what programming is like, introduces the process of program development, and introduces the major concepts of programming --- variables, data types, functions, parameters, assignment statements, conditionals, compound data types such as structures, lists, and arrays, and repeating constructs such as loops and recursion. In this course, students will write programs in the Python programming language.

General Education
- This course counts as a "Formal Sciences Distribution Course" and satisfies the University Learning Goal in "Quantitative Reasoning".

Course Learning Goals
- Students will use the Software Development Process to create computer programs in Python.
- Students will test if a Python program works correctly by running the program on appropriate examples.

Students With Disabilities
If you have a disability that may impact your ability to carry out assigned course work or complete quizzes and exams, and are not already enrolled in the Learning Disabilities Program, it is important that you contact the staff in the Disability Support Services Office (DSS), University Center, Room 310, (516) 877-3145, DSS@adelphi.edu. DSS will review your concerns and determine, with you, appropriate and necessary accommodations. All information and documentation of disability is confidential.

   If you have a physical, medical, or learning disability and require accommodations, please notify the instructor and present appropriate documentation within the first two weeks of the semester.

Academic Honesty
Students enrolled in this course are expected to abide by Adelphi University's Honor Code and its policies on Academic Honesty, which can be viewed on the web at http://academics.adelphi.edu/policies/honesty.php. The purpose of the Honor Code is to protect the academic integrity of the University by encouraging consistent ethical behavior in assigned coursework by students. The following is excerpted from the Student Honor Code:

The code of academic honesty prohibits behavior, which can broadly be described as lying, cheating, or stealing. Violations of the code of academic honesty will include, but are not limited to, the following:

1. **Fabricating data or citations**
2. **Collaborating in areas prohibited by the professor**
3. **Unauthorized multiple submission of work**
4. **Sabotage of others' work, including library vandalism or manipulation**
5. **Plagiarism: presenting any work as one's own that is not one's own**
6. **The creation of unfair advantage**
7. **The facilitation of dishonesty**
8. **Tampering with or falsifying records**
9. **Cheating on examinations through the use of written materials or giving or receiving help in any form during the exam, including talking, signals, electronic devices, etc.**

Violations of these standards, including (but not limited to) plagiarism of any portion of an assignment or misconduct during quizzes & exams, will be dealt with in accordance with University regulations & procedures and reported to the Provost's office.

Moodle Learning System
- To access Moodle, log on to your eCampus account, then click on the Moodle tab.
- All grades (for assignments, quizzes, and exams) will be posted to Moodle.
- All lecture PowerPoint slides, assignments, and assignment solutions, will be posted to Moodle.
- Each assignment on Moodle will include a link to be used to submit the assignment.
- If you have not used Moodle before, a tutorial can be found at: http://fcpe.adelphi.edu/moodle/student/
- If a class meeting is cancelled for any reason, you are required to log on to the class Moodle page for instructions and assignments.

Student Course Evaluations
About 2 weeks before the start of Final Exams, the course evaluation will become available to you on eCampus. Availability will end just before the first day of Final Exams. Your feedback is valuable to me in making improvements to the course for future students and I encourage you to respond. Please be assured that your responses are anonymous and that the results will not be available to me until after your final course grades are submitted to the University.

Attendance
Attendance is required. After four absences, your grade will be lowered by one-third of a grade (e.g., A to A-, A- to B+, etc.). You are also responsible for whatever work is covered in class *whether or not you are there*. Absence from quizzes and the final exam will be excused only for a good and **well-documented** reason. The decision to allow a make-up quiz or exam will be made in accordance with the policies of Adelphi University. Please arrive to class *on time* whenever possible. Also, latenesses (or leaving early) will count as partial absences. But, I would much rather you arrive late or leave early, then miss an entire class session.

If I know in advance that I will be absent or late for a class, then I will post this information to Moodle, and Moodle will automatically send an e-mail to your Adelphi e-mail account. ***In the rare case that I am not there at the start of class and there is no announcement on Moodle or the classroom door, then you should wait in the classroom until 4:35pm, as I am probably just running late.***

If you know in advance that you will be absent or late for a class, please e-mail me to let me know.

Textbook
--Zelle, John. Python Programming: An Introduction to Computer Science. Franklin, Beedle & Associates Inc., 2010. (ISBN-13: 978-1-59028-241-0)

Programming Environment
This course will use the Python 3.4.3 Programming Environment which is installed on most campus computers. This free software can also be downloaded from https://www.python.org/downloads/release/python-343/ (Scroll to the bottom of the screen and select the link for your operating system: Windows or Mac)

Course Expectations

As is typical of undergraduate courses, lectures will not cover everything you need in order to complete the homework assignments. While the class meetings will highlight the important parts of the material, there will not be time in class to cover all of the material in each reading assignment in detail. Therefore, having access to, *and reading*, the textbook is an essential component of this course. I do not expect you to always understand everything in the reading assignments. However, I do expect you to ask me questions about anything that you do not fully understand in a reading assignment, either by e-mail, in office hours, or during the lecture covering that material. To benefit most from the reading assignments, you are supposed to read them *before* the class session covering those sections.

Since this course meets for 3 credit hours per week, it is expected that on average you do 4-6 hours of work for this course per week outside of class time. Please budget this time to ensure that homework and reading assignments are completed on time. It is known that especially in beginning programming courses, it is of the utmost importance for students to *keep up with the readings and assignments*. If you are having difficulty or are falling behind, please contact me as *soon* as possible, either by e-mail or by seeing me during office hours.

Grading

The final numerical course grade is the total of the following:

Assignments   40% $[\frac{points\ earned\ (including\ extra\ credit)}{points\ assigned\ (excluding\ extra\ credit)} \times 40]$

Quizzes   30% $[\frac{average\ of\ all\ quiz\ grades\ (as\ a\ percent)}{100} \times 30]$

Final Exam   30% $[\frac{final\ exam\ grade\ (as\ a\ percent)}{100} \times 30]$

The final course grade corresponding to each final numerical course grade will be no lower than:

A+ = 97 & up   A = 93-96.9   A- = 90-92.9   B+ = 87-89.9   B = 83-86.9   B- = 80-82.9
C+ = 77-79.9   C = 73-76.9   C- = 70-72.9   D+ = 67-69.9   D = 63-66.9   D- = 60-62.9   F = 0-59.9

Assignments

You are expected to study and understand the material before completing the assignments in this course. Therefore, the assignments will be graded for accuracy.

In Class: During some class meetings, timed lab assignments may be given. I will only give limited assistance in class during these assignments, since I expect you to ask all your questions about the material in a lesson either before or during the lecture covering that material.

Homework: Homework will be assigned regularly and all assignments are to be turned it through the Moodle Learning System (see above) by 11:55pm on the due date unless stated otherwise. Late assignments will not be accepted, except in extreme circumstances (like serious illness or a family emergency) when I am notified before the due date.

Most of the homework assignments will involve programming. It is your responsibility to make sure you understand the relevant reading assignment before beginning to program. If you have done that and still have difficulty, you need to contact me at least 2 days prior to the due date to receive assistance. This means if an assignment is due on Monday, you need to contact me by Saturday. You cannot expect to be successful on the assignments if you first start them on the last day or two before their due date.

I encourage you to ask me questions about homework exercises, by email or during office hours. However, I will not show you the solution to any homework exercise, prior to your final submission of that assignment. With that said, I will be glad to show you the solution to any exercise that is not an assigned homework exercise, either during office hours or by e-mail.

In general, class time cannot be allotted to the review of graded homework. However, I will post the answers to all programming exercises assigned in each homework assignment on Moodle, within one week after the homework due date. For further review of graded homework, please attend my office hours.

Pair Programming: For some assignments, you will have the option of working alone or in pairs, with another classmate from this section of CSC 160. You cannot "pair-off" with the same person more than once during the semester. When I say "pairs", I don't mean that you each do half the questions. I mean that you are both working *together* on *all* of the assignment. When working in pairs, submit one assignment with both names on it. A few weeks into the semester, you will be given a paper to read that discusses Pair Programming in more detail.

Academic Honesty: You are encouraged to discuss general ideas regarding homework problems with your classmates and/or tutors, but you must write up the solutions independently (or in pairs, see above). Copying any part of another person's solution (even if you modify the code) is considered an academic honesty violation. ***No credit will be given for any assignment submission, or portion thereof, that is substantially similar to another student's, or pair's, assignment submission. I will not try to figure out who copied from whom; it is your responsibility to not let anyone copy your homework.***

Submitting Assignments: The first line of every programming assignment *must* contain a comment indicating the name(s) of the student(s) working on it and which assignment it is. If this is not done, the assignment will get a zero grade.

Most assignments will specify a filename to be used. If you submit your homework with a different filename, there will be a penalty of up to 10% of the assignment grade. When the filename says LASTNAME, replace that with your own last name. For example, if the assignment says to use the filename "hw1LASTNAME.py", I would save the file as "hw1Wittenstein.py".

Quizzes
There will be several quizzes during the semester and the dates will be announced at least one week in advance. Each quiz will have a time limit, usually between 15 and 30 minutes. All quizzes will be on paper (with computers turned off) and you cannot use any materials, other than pens/pencils and calculators. The questions on each quiz will be based only on recent material. However, since most of the material in this course builds on previous topics, you will need to know previous material in order to be successful on the quizzes.

Final Exam
Like the quizzes, the Final Exam will be on paper and you can only use pens/pencils and calculators. The Final Exam will emphasize the material later in the course, but may have questions based solely on earlier material. While it is recommended to study the quizzes and their solutions as part of your preparation for the Final Exam, you will also need to study other materials. The Final Exam will not just be the same or similar questions to those on the quizzes.

Tentative Schedule of Topics
Chapter 1: Computers and Programs   Chapter 6: Defining functions
Chapter 2: Writing Simple Programs   Chapter 7: Decision Structures
Chapter 3: Computing with Numbers   Chapter 8: Loop Structures and Booleans
Chapter 4: Objects and Graphics   Chapter 9: Simulation and Design
Chapter 5: Sequences: Strings, Lists, & Files   Chapter 11: Data Collections
*A day-by-day calendar can be found on Moodle. This calendar will be updated throughout the semester as dates may shift, such as when a topic which is planned for 1 day actually takes 2 days, or vice-versa.

STUDENT ACKNOWLEDGEMENT:
I HAVE READ AND UNDERSTOOD THE SYLLABUS FOR FALL 2015 CSC 160-02

Signature: _____ Printed Name: _____ Date: _____