CSE101: Introduction to Computers

Administrative Information

Term: *Fall 2018*

Instructor: *Pravin Pawar*

Course Meeting Times: *Lectures: Tue & Thurs, 10:30AM-11:50AM*

Lab: Mon, 12:30-1:50PM

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Office Hours: *Mon: 3:00-5:00PM, Wed: 10:30AM-12:30PM, 3:00PM-5:00PM*

Course Homepage: *www3.cs.stonybrook.edu/~pravinp/CSE1 01 _Course/index.html*

Text: *Conery, John S. Explorations in Computing: An Introduction to Computer Science and Python Programming. Chapman and Hall/CRC, 2014. ISBN 978-1466572447.*

Text2*: Tagliaferri, Lisa, How to Code in Python 3, Digital Ocean, New York, New York. ISBN 978-0-9997730-1-7.*

Course Organization

This course introduces central ideas of computing and computer science, instills practices of computational thinking, and engages students in the creative aspects of the field. It also introduces appropriate computing technology as a means for solving computational problems and exploring creative endeavors. The class time will contain short lectures, demonstrations, and student exercises to practice programming skills. However, some supplemental videos will be viewed at home by the student to enhance and reinforce class materials.

Course Objectives/Outcomes

Upon completion of the courses, students are expected to:

- An ability to use computing tools and techniques to create computer program artifacts
- An ability to use multiple levels of abstraction, models, and simulation in computation
- An ability to use algorithms to develop and express solutions to computational problems

Prerequisite

- Level 3 or higher on the mathematics placement examination.

Grades and Evaluation

The course provides a total of 500 points distributed across the below categories. Your grade in the course will be based on the following work:

Quizzes – 25% (125 points) - Short quizzes [6 given, lowest grade dropped] will be given to check the student's learning from reading assignments. 4 quizzes will be written (multiple choice) and 2 quizzes will be oral (face to face).

Problem Sets – 15% (75 points) - Problem sets [5 assignments] will be given each that will give the student an opportunity to apply the knowledge acquired from reading and lectures.

Labs – 15% (75 points) - Labs [10 'graded' lab sessions] provide practice skills with tasks to reinforce language learning.

Class Attendance/Participation – 5% (25 points)

Midterm Exam 1 – 10% (50 points) - A midterm exam based on reading and concepts presented in the lecture.

Midterm Exam 2 – 10% (50 points) - A midterm exam based on reading and concepts presented in the lecture.

Final Exam – 20% (100 points) - A cumulative final exam will provide questions that will cover the key concepts taught through the entire semester.

Final Grade Calculation

The final grade is based on the accumulated points from all quizzes, exams, and assignments (with the entire class comprised of 500 points). Letter grades are given on the following scale:

Letter	Minimum Percentage	Minimum 'points'
A	93	465
A-	90	450
B+	87	435
B	83	415
B-	80	400
C+	77	385
C	73	365
C-	70	350
D+	67	335
D	60	300
F	<60	<300

Attendance

The range of topics covered in this course is extensive, and due to the limited lecture and lab time, these topics are covered in an intensive manner. Therefore, attendance at both lectures and lab are mandatory in order to keep up and perform well. – Attendance will be taken in the beginning of each lecture and lab session. – If a student has over 20% unexcused absences, the final course grade will be an F.

Re-grading

For re-grading of an assignment or exam, please meet with the person (instructor or teaching assistant) responsible for the grading. All such requests that are later than one week from the date the graded work is returned to the class will not be entertained. To promote consistency of grading, questions and concerns about grading should be addressed first to the TA and then, if that does not resolve the issue, to the instructor. You are welcome to contact the TA by email or come to his/her office hour. If you would like to speak with the TA in person, and have a schedule conflict with his/her office hour, you are welcome to make an appointment to meet the TA at another time.

Programming Assignments

Development Environment Most of the programming that you do in this course will be in Python, using the PyCharm programming environment. Both Python and PyCharm are available free for you to install on your computer. If you don't have a computer of your own to use, please let me know as soon as possible.

Extensions

Programming assignments must be turned in on the day they are due. Students are urged to plan ahead to avoid problems such as congestion or failure of computer facilities at the last minute. If your assignment is incomplete or is not working by the due date, turn in whatever you have. Note due to limited resources for grading, programs which do not compile or run for testing may not be graded. If some sort of emergency prevents you from submitting your assignment on time, supplying me with suitable documentation and notification prior to the assignment deadline will be considered.

Quizzes

Quizzes will be given in lecture which contain questions on the material covered in lecture, textbook, and lab. The quizzes are to be completed individually in the allotted time. No makeup quizzes will be given unless prior excused absence with documentation was granted.

Academic Dishonesty

You may discuss the practice problems with anyone you like, however each students' assignment (including coding) which they submit must be their own work, and only their own work. Any evidence that source code or solutions have been copied, shared, or transmitted in any way (this includes using source code downloaded from the Internet or written by others in previous semesters!) will be regarded as evidence of academic dishonesty.

Guidelines for Assignments

Working together to find a good approach for solving a programming problem is cooperation; listening while someone dictates a solution is cheating. You must limit collaboration to a high-level discussion of solution strategies, and stop short of actually writing down a group answer. Anything that you hand in, whether it is a written problem or a computer program, must be written in your own words. If you base your solution on any other written solution, you are cheating.

Guidelines for Taking Exams

When taking an exam, you must work completely independently of everyone else. Any collaboration here, of course, is cheating. All examinations will be closed-notes and closed-book. No electronic devices of any kind will be permitted to be used during exams. All cell phones must be silenced or turned off during exams. You will be allowed one sheet of notes, both sides (8.5 x 11 or A4).

General Guidelines

Be advised that any evidence of academic dishonesty will be treated with utmost seriousness. We do not distinguish between cheaters who copy others' work and cheaters who allow their work to be copied.

If you cheat, you will be given an F on the assignment. Any incidence of cheating will be reported to Academic Affairs. If you have any questions about what constitutes cheating, please ask.

Students with Disabilities

If you have a physical, psychological, medical or learning disability that may impact your course work, please let the instructor know. Reasonable accommodation will be provided if necessary and appropriate. All information and documentation are confidential.

Critical Incident Management

The University expects students to respect the rights, privileges, and property of other people. Faculty are required to report to the Office of Judicial Affairs any disruptive behavior that interrupts their ability to teach, compromises the safety of the learning environment, or inhibits students' ability to learn.