Syllabus (for section 004)

The university of Texas at Arlington

Computer Science and Engineering Department

Syllabus (Fall 2014)

CSE 1310: Introduction to Computers and Programming

Instructor: Farhad Kamangar

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Office Hours: Tuesdays and Thursdays 3:30-5:30 PM

Section Information: CSE-1310 Section 004

Time and Place of Class Meetings: NH Room 110 TuTh 2:00-3:20 PM

Course Website:http://ranger.uta.edu/~kamangar/Courses/CSE-1310-FA14

Description of Course Content: CSE 1310 INTRODUCTION TO COMPUTERS &PROGRAMMING (3-0) An introduction to the computer, to the algorithmic process, and to programming using basic control and data structures, using a procedural language. Prerequisite: MATH 1302 (or concurrently).

Course Objectives: Introduce the concepts of algorithmic process by writing computer programs.

Student Learning Outcomes: Upon successful completion of this course, each student will:

- Be able to create algorithms for solving mathematical and engineering problems.
- Be able to develop their own programs in Python.
- Be able to read and understand Python code.

Required Textbooks and Other Course Materials: W. Punch and R. Enbody, The Practice of Computing using Python (2nd Edition), 2012.

ISBN: 978-0132805575

Supplemental books:

- Learn Python The Hard Way, 2nd Edition

Attendance: At The University of Texas at Arlington, taking attendance is not required. Rather, each faculty member is free to develop his or her own methods of evaluating students' academic performance, which includes establishing course-specific policies on attendance. As the instructor of this section I have established the following attendance policy:

- I will take attendance but will not factor attendance into the grade
- DO NOT enter the class if you arrive late and lecture has started. Your late arrival will disturb the continuity of the subject and may break other student's concentration.
- Quizzes will be given at the start of class. DO NOT enter the class once the quiz has been handed out. You will receive a grade of zero for the quizzes that you were absent.
- Students are responsible for all material presented during classes from which they were absent.

Important dates.

Aug. 21, 2014 First day of classes

Sept. 8, 2014 Census date

Oct. 14, 2014 Midterm Exam

Oct. 29, 2014 Last day to drop classes

Nov. 27, 2014 Thanksgiving Holiday

Dec. 3, 2014 Last day of classes

Dec. 9, 2014 Final Exam (2:00-4:30 PM)

Grading: Grades will be calculated based on the following percentages:

Quizzes	25%
Assignments	25%

Midterm Exam	25%
Final	25%

Letter grades are assigned as follows:

90%–100%	A
80%–89%	B
70%–79%	C
60%–69%	D
0%–59%	F

Students are expected to keep track of their performance throughout the semester and seek guidance from available sources (including the instructor) if their performance drops below satisfactory levels.

Descriptions of major assignments and examinations: There will be 8-10 assignments, one midterm exams, one final exam, and in-class quizzes. Midterm exam and final will include theoretical and programming questions. Quizzes consist of occasional, unannounced, written questions which will be given at the start of the class. The quiz policy may be adjusted in the case of documented disability.

Each assignment will be graded according to the following:

- All the lab assignments (programs) will be written in Python 3.x.
- Programs must be submitted electronically using the Blackboard at https://elearn.uta.edu. File names and formatting of each assignment must follow the assignment submission guidelines.
- Programs must compile using Python 3.x compiler.
- All assignments are due at 11:59 PM on the specified date. Late assignments will receive a grade of zero. To minimize the chance of late submission, it is recommended that you submit your assignment a few days before the due date. You may then revise and resubmit your assignment till the deadline.

- Programs that do not compile or compile with compiler warning or error receive zero (0) credit (No partial credits).
- Programs that do not execute will receive zero (0) credit (No partial credits).
- Programs that implement some, but not all, of the requirements may receive partial credit. However, these programs must still compile and run without errors.
- It is your responsibility to completely test your program PRIOR to submission and make sure that it compiles and executes without error(s).
- While group studies and working with other person(s) on non-graded problems is encouraged, any submitted homework must be your work only. Violations of this will not be tolerated and result in severe penalties for all parties involved, in strict compliance to official UTA policy.

Course Assignments and General Policies:

- Please turn off your cell phone during the class.
- If you bring a notebook (laptop, pad, ...) to class it should only be used for work which is related to the ongoing subject in this class. DO NOT use your computer for anything which is not related to this class such as email, social networks, games, chat, or work related to other courses.
- Tests shall include information from the text as well as information from class lectures.
- There will be no makeup exams, quizzes, or assignments. If and only if you have a University excuse for being absent from a test, the next scheduled exam shall count twice.
- No special make-up work will be accepted after the end of the semester. In the event of a documented major medical problem, a grade of Incomplete will be given pending the submission of complete work. However, make-up work "to improve one's grade" will not be accepted.
- All assignments must be turned in electronically by using the Blackboard system at https://elearn.uta.edu
- the lowest assignment score, and the lowest quiz score, will be dropped. The midterm and final exams are absolutely required.
- Your opinion matters and all constructive suggestions will be seriously considered. However, your suggestions should be applicable to all students in the class and not to a particular individual or yourself. Please do not ask for any exception.

Expectations for Out-of-Class Study: Students enrolled in this course should expect to spend at least an additional 12 hours per week of their own time in course-related activities, including reading required materials, completing assignments, preparing for exams, etc.

Grade Grievances: Any appeal of a grade in this course must follow the procedures and deadlines for grade-related grievances as published in the current undergraduate catalog. http://wweb.uta.edu/catalog/content/general/academic_regulations.aspx#19

Drop Policy: Students may drop or swap (adding and dropping a class concurrently) classes through self-service in MyMav from the beginning of the registration period through the late registration period.

After the late registration period, students must see their academic advisor to drop a class or withdraw. Undeclared students must see an advisor in the University Advising Center. Drops can continue through a point two-thirds of the way through the term or session. It is the student's responsibility to officially withdraw if they do not plan to attend after registering. **Students will not be automatically dropped for non-attendance**. Repayment of certain types of financial aid administered through the University may be required as the result of dropping classes or withdrawing. For more information, contact the Office of Financial Aid and Scholarships (http://wweb.uta.edu/aao/fao/).

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Americans with Disabilities Act: The University of Texas at Arlington is on record as being committed to both the spirit and letter of all federal equal opportunity legislation, including the *Americans with Disabilities Act (ADA)*. All instructors at UT Arlington are required by law to provide "reasonable accommodations" to students with disabilities, so as not to discriminate on the basis of that disability. Any student requiring an accommodation for this course must provide the instructor with official documentation in the form of a letter certified by the staff in the Office for Students with Disabilities, University Hall 102. Only those students who have officially documented a need for an accommodation will have their request honored. Information regarding diagnostic criteria and policies for obtaining disability-based academic accommodations can be found at www.uta.edu/disability or by calling the Office for Students with Disabilities at (817) 272-3364.

Title IX: The University of Texas at Arlington is committed to upholding U.S. Federal Law "Title IX" such that no member of the UT Arlington community shall, on the basis of sex, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under any education program or activity. For more information, visit www.uta.edu/titleIX.

Academic Integrity: All students enrolled in this course are expected to adhere to the UT Arlington Honor Code:

> *I pledge, on my honor, to uphold UT Arlington's tradition of academic integrity, a tradition that values hard work and honest effort in the pursuit of academic excellence.*
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> *I promise that I will submit only work that I personally create or contribute to group collaborations, and I will appropriately reference any work from other sources. I will follow the highest standards of integrity and uphold the spirit of the Honor Code.*

UT Arlington faculty members may employ the Honor Code as they see fit in their courses, including (but not limited to) having students acknowledge the honor code as part of an examination or requiring students to incorporate the honor code into any work submitted. Per UT System*Regents' Rule* 50101, §2.2, suspected violations of university's standards for academic integrity (including the Honor Code)

will be referred to the Office of Student Conduct. Violators will be disciplined in accordance with University policy, which may result in the student's suspension or expulsion from the University.

All students are expected to pursue their academic careers with honesty and integrity. "Scholastic dishonesty includes, but is not limited to, cheating, plagiarism, collusion, the submission for credit of any work or materials that are attributable in whole or in part to another person, taking an examination for another person, any act designed to give unfair advantage to a student or the attempt to commit such acts" (Regents' Rules and Regulations, Part One, Chapter VI, Section 3, Subsection 3.2, Subdivision 3.22.). Students found guilty of dishonesty in their academic pursuits are subject to penalties that may include suspension from the university. Any student found guilty of academic dishonesty will receive a -100% for that work (assignments, project, etc.) as well as having the course grade lowered one full letter grade - in addition to any other penalties assessed (suspension, expulsion, probation). These and other applying UTA rules, will be strictly enforced. Any case of academic dishonesty will be treated in accordance with the UTA Handbook of Operating Procedures or the Judicial Affairs website at http://www2.uta.edu/discipline. If you do not understand this policy, it is your responsibility to obtain clarification or any additional information you may require. Students are not allowed to:

- Collaborate with others on the code they write
- Copy any part of someone else's program, even if they have permission and/or have modified the code
- Share or give their code, or even a subset of the code to, another student
- Review another student's solution (including from past semesters)

All work turned in for grading must be the student's own work.

Electronic Communication: UT Arlington has adopted MavMail as its official means to communicate with students about important deadlines and events, as well as to transact university-related business regarding financial aid, tuition, grades, graduation, etc. All students are assigned a MavMail account and are responsible for checking the inbox regularly. There is no additional charge to students for using this account, which remains active even after graduation. Information about activating and using MavMail is available at http://www.uta.edu/oit/cs/email/mavmail.php.

Student Feedback Survey: At the end of each term, students enrolled in classes categorized as "lecture," "seminar," or "laboratory" shall be directed to complete an online Student Feedback Survey (SFS). Instructions on how to access the SFS for this course will be sent directly to each student through MavMail approximately 10 days before the end of the term. Each student's feedback enters the SFS database anonymously and is aggregated with that of other students enrolled in the course. UT Arlington's effort to solicit, gather, tabulate, and publish student feedback is required by state law; students are strongly urged to participate. For more information, visit http://www.uta.edu/sfs.

Final Review Week: A period of five class days prior to the first day of final examinations in the long sessions shall be designated as Final Review Week. The purpose of this week is to allow students

sufficient time to prepare for final examinations. During this week, there shall be no scheduled activities such as required field trips or performances; and no instructor shall assign any themes, research problems or exercises of similar scope that have a completion date during or following this week *unless specified in the class syllabus*. During Final Review Week, an instructor shall not give any examinations constituting 10% or more of the final grade, except makeup tests and laboratory examinations. In addition, no instructor shall give any portion of the final examination during Final Review Week. During this week, classes are held as scheduled. In addition, instructors are not required to limit content to topics that have been previously covered; they may introduce new concepts as appropriate.

Emergency Exit Procedures: Should we experience an emergency event that requires us to vacate the building, students should exit the room and move toward the nearest exit. When exiting the building during an emergency, one should never take an elevator but should use the stairwells. Faculty members and instructional staff will assist students in selecting the safest route for evacuation and will make arrangements to assist handicapped individuals.

Student Support Services: UT Arlington provides a variety of resources and programs designed to help students develop academic skills, deal with personal situations, and better understand concepts and information related to their courses. Resources include tutoring, major-based learning centers, developmental education, advising and mentoring, personal counseling, and federally funded programs. For individualized referrals, students may visit the reception desk at University College (Ransom Hall), call the Maverick Resource Hotline at 817-272-6107, send a message to resources@uta.edu, or view the information at www.uta.edu/resources..

Emergency Phone Numbers: In case of an on-campus emergency, call the UT Arlington Police Department at **817-272-3003** (non-campus phone), **2-3003** (campus phone). You may also dial 911.

Course Topics and Schedule.

- Aug. 21: Introduction to computers and data representation
- Aug. 26: Variables, expressions, and statements
- Sep. 2: Conditionals and control statements
- Sep. 9 Lists
- Sep. 30: Loops
- Oct. 7: Strings
- Oct. 16: Functions
- Oct. 30 File input and output
- Nov. 6: Dictionaries

- Nov. 17: Recursion and data structures

As the instructor for this course, I reserve the right to adjust this schedule in any way that serves the educational needs of the students enrolled in this course. –Farhad Kamangar.