ECE 216 SS 2017 Syllabus (Instructor: Mirza Mohd Shahriar Maswood)

Instructor Information	
Department	School of Computing & Engineering
Name	Mirza Mohd Shahriar Maswood
Contact Information	Email: mmnt7@mail.umkc.edu Office Phone: 816-235-2996 Preferred Contact Method: Email
Class Meeting Time / Place	Mo Tu We Th 12:00PM - 2:00PM Katz Hall-Rm 00010
Semester Offered	Summer 2017
Instructor Office Hours / How to Make an Appointment	Tu & Th: 2:00 PM – 3:00 PM No need to make an appointment during office hours Other than office hours email me to take appointment
Instructor Office Location	Flarsheim Hall: Room 455

Catalog Information	
Subject	E&C ENGR 216
Course Number	44980
Course Title	Engineering Computation
Course Description	Development, analysis and synthesis of structured computer programs for solving engineering problems in the Python, MATLAB, and C languages. Introduction to algorithms and data structures.
Credit Hours	4 units
Prerequisites	MATH 110 (or equivalent)
Course Format	Lecture
Course Instructional Mode	Online

Course Information		
Student Learning Outcomes	By the end of this course the student should be able to (but not limited to): - Define basic programming concepts such as input/output, conditional statements, looping statements, Reading and writing to a file, Functional programming, Data structures, and debugging - Differentiate the IDEs used for Python, MATLAB, and C - Construct and analyze programs that can employ the above concepts in three different programming languages Python, MATLAB, and C	
Required and Recommended Materials	1. How to program C by Paul Deitel and Harvey Deitel, Seventh Edition. ISBN: 978-0132990448. 2. The Practice of Computing using Python by William Punch, & Richard Enbody, 2nd Edition. ISBN: 978-0132805575.	Available at UMKC Bookstore: http://www.umkcbookstore.com/ **Also, read the lecture notes uploaded in Blackboard.**

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Grading	Weighted Total	Letter Grade
	> 94	A
	90 – 93	A-
	87 – 89	B+
	83 - 86	B
	80 – 82	B-
	77 – 79	C+
	73 – 76	C
	70 – 72	C-
	67 – 69	D+
	63 – 66	D
	60 - 62	D-
	< 60	F

Evaluation and Grading Criteria	Sample rubric is used for evaluating each assessment (See sample rubric) 10 Assignments: 2% each (Total: 20%) 4 Midterm Exam: 15% each (Total 60%) Comprehensive Final Exam: 20%.

Schedule of Topics Covered	June 5 – June 8: General Programming topics (Algorithm, Flowchart, Pseudocode [See General Programming Lecture 1-5]) June 12: General Programming Exam June 13 - June 22: Python Programming (Looping, Branching, string, set, tuple, dictionary, list [See Python Programming Lecture 1-13]) June 26 – Python Exam June 27 – July 6: MATLAB Programming (Looping, Branching, Matrix Operation, Graph Generation, Correlation Analysis [See MATLAB Programming Lecture 1-13]) July 10 – MATLAB Programming Exam July 11 – July 20: C Programming (Function, Loop, Conditional statement, Array, Random Number Generation [See C Programming Lecture 1-11]) July 24 – C Programming Exam July 25 – July 26: Review for the Final Exam July 27: 12:00 PM – 2:00 PM Comprehensive Final Exam

Assignments & Deadlines	Assignment Number	Deadline
	1 – General Programming HW1	June 9
	2 – Python HW1	June 14
	3 – Python HW2	June 19
	4 – Python HW3	June 24
	5 – MATLAB HW1	June 29
	6 – MATLAB HW2	July 5
	7 – MATLAB HW3	July 9
	8 – C HW1	July 14
	9 – C HW2	July 18
	10 – C HW3	July 22

Course Expectations / Success Tips

To perform well in a programming course regular study is very important. Students are expected to keep 10 hours per week for studying the lectures per the schedule provided above. This is an elementary course of learning programming, however, there is always a start. If the start is good, then there is high probability of being a successful computer programmer. The overall success tips for this course is to study the lectures materials regularly and complete all the assessment within deadline. Furthermore, students are highly encouraged to contact with the instructor if any material is not clear to them.

Policies, Requirements, and Standards for Behavior

Late Work Policy

Assignments must be turned in prior to the due date. No incompletes will be given. All assignments should be uploaded in person to Blackboard course site by the due date. The sent time stamp on the Blackboard postings will determine the time the assignment was received. Late submissions will be reduced by one-half letter grade (5%) per day late, except in case of unavoidable emergency (as determined through consultation with the instructor).

Responsibility and Requirements

Completion of all assignments is required but not sufficient to pass the course. As a community of learners, participation in online discussions and learning activities is extremely important. Students will have clear expectations for learning activities and receive timely feedback. The basic premise in this course is that meaningful learning results from a process of rational discourse. Your responsibilities are to take charge of your learning and to maximize your learning by reading assigned materials, respecting the dignity of each class member while posting in online discussion forum, communicating needs and concerns to the instructor, completing required assignments on time and with high quality, and keeping track of your assignments and progress in class.

Standards for Behavior

In this course, a high degree of professionalism is required from all students. This course will strive to foster a respectful learning community. It is expected that community (class) members will demonstrate intellectual maturity, democratic values and attitudes (respect, sensitivity, responsibility, and cooperation). As a future computer engineer especially while working in a software industry, it is important to learn to be team players and exemplary professionals. Please know that display of unprofessional dispositions will affect your course grade. **The instructor reserves the right to manage a positive learning environment and thus will not condone inappropriate conduct in the course.** Generally, academic/professional misconduct by a student shall include, but not be limited to: disruption of learning activities (including inappropriate online conversation), rudeness toward the instructor or other class members, insensitivity, misrepresenting information presented in class, manipulative and negative behavior, etc. Engagement in any of these behaviors carries penalty in terms of dismissal from the course or course failure.

Additional Resources

Academic Calendar
Students are encouraged to review important add, drop or withdraw dates: Academic Calendar

Academic Honesty
The Board of Curators of the University of Missouri recognizes that academic honesty is essential for the intellectual life of the University. Faculty members have a special obligation to expect high standards of academic honesty in all student work. Students have a special obligation to adhere to such standards. Academic dishonesty, including cheating, plagiarism or sabotage, is adjudicated through the University of Missouri Student Conduct Code and Rules of Procedures in Student Conduct Matters. (*Academic units may have additional student codes of behavior to be referenced, i.e. Honor Codes.*)

Academic Inquiry, Course Discussion and Privacy
Faculty not allowing recording - University of Missouri System Executive Order No. 38 lays out principles regarding the sanctity of classroom discussions at the university. The policy is described fully in Section 200.015 of the Collected Rules and Regulations. In this class, students may not make any audio or video recordings of course activity (including those recordings prepared by an instructor), except students permitted to record as an accommodation under Section 240.040 of the Collected Rules. All other students who record and/or distribute audio or video recordings of class activity are subject to discipline in accordance with provisions of Section 200.020 of the Collected Rules and Regulations of the University of Missouri pertaining to student conduct matters.
Those students who have written permission from the course instructor to record are not permitted to redistribute any audio or video recordings of statements or comments from the course to individuals who are not students in the course without the express permission of the faculty member and of any students who are recorded, including those recordings prepared by an instructor. Students found to have violated this policy are subject to discipline in accordance with provisions of Section 200.020 of the Collected Rules and Regulations of the University of Missouri pertaining to student conduct matters.

Attendance Policy
Students are expected to attend and participate in classes. Advance notice of attendance policies of academic units and individual instructors should be given, and such notice should be in writing. Students should notify instructors of excused absences in advance, where possible. Students who have an excused absence are expected to make arrangements with instructors for alternative or make-up work. Such arrangements should be made in advance of the absence, where possible. Instructors should accommodate excused absences to the extent that an accommodation can be made that does not unreasonably interfere with the learning objectives of the course or unduly burden the instructor. Attendance policies shall be applied in a non-discriminatory manner.

Campus Safety
Inclement weather, mass notification, and emergency response guide: UMKC Alert – Emergency Information Center

Counseling and Health Services Available at UMKC
UMKC students may experience many challenges in their lives while attending college – stress, depression, suicidality, trauma, relationship issues, health concerns, etc. As your professor, I care about your success and well-being, and want to make you aware of some helpful resources on campus. The UMKC Counseling Center (www.umkc.edu/counselingcenter), located at 4825 Troost in Room 206, offers a wide range of supportive services to students. Appointments can be made by calling 816.235.1635. UMKC Student Health and Wellness (http://info.umkc.edu/studenthealth/), located at 4825 Troost in Room 115, offers a full range of health care and promotion services. Appointments can be scheduled online or by calling 816.235.6133. The Mind Body Connection (www.umkc.edu/mindbody) is located in the Atterbury Student Success Center in Room 112 and offers a variety of stress-reduction services.

Disability Support Services
To obtain disability related accommodations and/or auxiliary aids, students with disabilities must contact the Office of Services for Students with Disabilities (OSSD) as soon as possible. To contact OSSD, call (816) 235-5696. Once verified, OSSD will notify the course instructor and outline the accommodation and/or auxiliary aids to be provided. For more information go to: http://www.umkc.edu/disability/

English Proficiency Statement
Students who encounter difficulty in their courses because of the English proficiency of their instructors should speak directly with their instructors. If additional assistance is needed, students may contact the UMKC Help Line at 816-235-2222 for assistance.

Grade Appeal Policy
Students are responsible for meeting the standards of academic performance established for each course in which they are enrolled. The establishment of the criteria for grades and the evaluation of student academic performance are the responsibilities of the instructor.
Grade appeals are available only for the review of allegedly capricious grading and not for review of the instructor's evaluation of the student's academic performance. Capricious grading, as that term is used here, comprises any of the following:
• The assignment of a grade to a student on some basis other than the performance in the course;
• The assignment of a grade to a student according to more exacting or demanding standards than were applied to other students in the course; (Note: Additional or different grading criteria may be applied to graduate students enrolled for graduate credit in 300- and 400-level courses.)
• The assignment of a grade by a substantial departure from the instructor's previously announced standards.
 The School of Education procedure for a grade appeal may be found at: School of Education Grade Grievance Procedure.   If you have other concerns with a course or an instructor, you should follow a similar process. Assistant Dean Christine Timmerman is available to help you navigate the process. We recommend that you send your concern in writing and follow-up with a request for a meeting to the instructor, chair, or dean, as appropriate.

Discrimination Grievance Procedures for Students

Discrimination Grievance Procedures for Students can be found here: <u>Discrimination Grievance Procedure for Students</u>

Grievance procedures (School of Education)
The School of Education has policies in place for assisting students with concerns and grievances: <u>General Grievance / Complaint Policy</u>.

Statement of Human Rights
The Board of Curators and UMKC are committed to the policy of equal opportunity, regardless of race, color, religion, sex, sexual orientation, national origin, age, disability and status as a Vietnam era veteran. Commitment to the policy is mentored by the <u>Division of Diversity, Access & Equity</u>, but it is the responsibility of the entire university community to provide equal opportunity through relevant practices, initiatives and programs.

Title IX
Under the University of Missouri's Title IX policy, discrimination, violence and harassment based on sex, gender, and gender identity are subject to the same kinds of accountability and support applied to offenses based on other protected characteristics such as race, color, ethnic or national origin, sexual orientation, religion, age, ancestry, disability, military status, and veteran status. If you or someone you know has been harassed or assaulted, you can find the appropriate resources by visiting UMKC's Title IX Office webpage (<u>Title IX Office</u>) or contacting UMKC's Title IX Coordinator, Mikah K. Thompson (816.235.6910 or <u>thompsonmikah@umkc.edu</u>). Additionally, you can file a complaint using UMKC's online discrimination complaint form, which is located at <u>Title IX Incident Report</u>.

While most UMKC employees are required to report any known or suspected violation of Title IX, students may seek confidential guidance from the following campus locations:

UMKC Counseling Service		
Volker Campus	**Health Sciences Campus**	**Student Health and Wellness**
4825 Troost Ave, Suite 206 Kansas City, MO 64110 Phone – (816) 235-1635	Health Sciences Building 2464 Charlotte, 1418 Kansas City, MO 64108 Phone – (816) 235-1635 (open Tuesdays, 1-5pm)	4825 Troost Ave., Suite 115 Kansas City, MO 64110 Phone - (816) 235-6133

UMKC Connect
Important information is available to undergraduate students in UMKC Connect accessed through Blackboard. Throughout the term, students may receive emails regarding course grades or academic performance. Students are expected to address information posted in a timely fashion. This information may be shared with the student's Success Network made up his or her academic advisor(s) and other campus resources so that UMKC may fully support the student's success.