CMPE101 - Foundations of Computer Engineering					
Department:	Department: Computer Engineering				
Instructor in	formation				
Names Duef	Da Halson Alterration	E maile halves al		and CMDE221	
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Assistant inf	ormation				
TBA			December Contra 25		
Program Nat	<u> </u>		Program Code: 25		
Course Num CMPE 101	ber:	Credits: 3 Cr		Year/Semester: 2017-2018 Spring	
				2017-2018 Spring	
Required		ective Course			
Prerequisite((S):				
Catalog desc	ription:				
This course in	ntroduces the studen			engineering. Topics covered include:	
				ata and information, applications of	
				t/output interface, secondary storage,	
				ities, application software, data g concepts: basic data types, constants and	
				ow charts, sequential, and conditional	
				-END, REPEAT-UNTIL, FOR	
	ormatted output, examinated			· · · · · · · · ·	
Course web	page:				
https://staff	.emu.edu.tr/haka	analtincay/en/te	eaching/cmpe101		
Textbook(s):					
				10 th Edition, Pearson Prentice Hall, 2014.	
		offman, Problem	Solving and Program D	Design in C, 6 th Edition, Pearson Prentice	
Hall, internati	ional edition, 2010.				
Indicative basic reading list:					
			Concepts, 8th edition, Pe		
	-	Programming in A	ANSI C, West Publishing	g Company, 1992.	
3. Lecture not		1 (4 4 4 X			
-	ed and class schedu	ile (tentative):			
Week 1-2	(3 hours of lectures per week)Week 1-2 Looking at computers; Understanding and assessing hardware; A closer look at system				
WCCK 1-2	hardware.	ers, enderstandi	ig und ussessing hurd wur	e, recioser rook at system	
Week 3	The operating system, utility programs and files management; Application software; Using the				
	Internet; Networki	•			
Week 4-5	Introduction to problem solving techniques, Algorithms, Flowchart.				
Week 6	Introduction to C programming language, Data types and expressions in C			pressions in C	
Week 7-8	C Programming: S	equential structur	e.		
Week 9-10	Midterm				
Week 11-12	C Programming: S	elective structure.			
Week 13-15	C Programming: R	Repetitive structure	2.		

Laboratory	schedule	(tentative):	

(2 hours	of	laboratory per week)	
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Week 3 No Lab

- Week 4 Introduction to Microsoft Word and Excel for Windows.
- Week 5 Introduction and debug features of MS visual C compiler.
- Week 6 No Lab
- Week 7 C Programming: sequential structure.
- Week 8 C Programming: more on sequential structure.
- Week 9-10 Midterm
- Week 11 No Lab
- Week 12 No Lab
- Week 13 C Programming: selective structure.
- Week 14 C Programming: more on selective structure.
- Week 15 C Programming: repetitive structure

Course learning outcomes:

Upon successful completion of the course, students are expected to have the following competencies:

- 1. Construct an algorithm and /or flowchart for solving a problem
- 2. Write a complete C program for solving a problem
- 3. Use IDE to edit, compile, and executing C code
- 4. Identify the difference between computer hardware and computer software
- 5. Identify the difference between the system software and application software
- 6. Measure computer system performance
- 7. Ability to understand basics of computer networks, and internet.
- 8. Identify the difference between the computer programming languages: Machine, Assembly, and High level languages.
- 9. Understand the Basics of high level programming languages
- 10. Use if-statement and switch statement to implement selective structure programs
- 11. Use while-loop, do-while loop, and for-loop to construct repetitive structures

Assessment (tentative)	Method	No	Percentage
	Midterm Exam	1	35%
	Final Examination	1	50%
	Lab	7	15%

Policy on makeups: For eligibility to take a makeup exam, the student should bring a doctor's report within 3 working days of the missed exam. You will have only one make-up for Midterm or final exams only. Make-up will be organized after final exam period and will cover all the material studied during the semester.

Attendance to lectures Attendance will be taken in every lecture but will not be graded.

Attendance to labs There is no makeup for labs

Policy on cheating and plagiarism: Any student caught cheating at the exams or assignments will automatically fail the course and may be sent to the disciplinary committee at the discretion of the instructor.

Date Prepared: 9 February 2018

Policy on NG grades: NG grade will be given in case of Missing Midterm and Final without official excuse.

Contribution of course to ABET criterion 5

Credit Hours for:

Mathematics & Basic Science : 0

Engineering Sciences and Design : 3

General Education : 0

Relationship of the course to program outcomes

The course has been designed to contribute to the following program outcomes:

e) identify, formulate, and solve engineering problems.

k) use the techniques, skills, and modern engineering tools necessary for engineering practice.

Prepared by: Prof. Dr. H. Altınçay