CMPE 108 ALGORITHMS & PROGRAMMING				
Department: Computer En	gineering			
Instructor Information Coordinator				
Name: Hakan Altınçay (Gro E-mail: Office: Office Tel:	01)			
Name: Hasan Kömürcügil (CE-mail: Office: Office Tel:	Gr02)			
Name: Ekrem Varoğlu (Gr0 E-mail: Office: Office Tel:	3)			
Office Tel.				
Assistant Information				
Program Name: Computer	Engineering	Program Code: 25		
Course Code CMPE 108	Credits 3 Cr		Year/Semester 2020-2021 Fall	
Required Course	Elective Course 🛛	Service Course		
Prerequisite(s) None				
Catalog Description Problem-Solving concepts for structures: algorithm instructi structures. Data structures: ar programming languages such	ons and flowcharts. Prorays, lists. File procession	oblem-Solving with: dec ng. Laboratory applicat	cisions, loops and case logic ions will be done with	
Course Web Page https://staff.emu.edu.tr/h	akanaltincay/en/tea	ching/cmpe108		
Textbook(s) "C Programming: A Modern	Approach", Second Edi	ition, K. N. King, Norto	on, 2008.	
Reference Book(s) "Problem Solving and Progr 8th Edition,2008. "Programming in ANSI C", I		•	m Hubbard, Pearson Prentice Hall,	
"C How to Program", Paul D "Problem Solving and Progra Wesley, 2009.	eitel and Harvey Deitel, m Design in C", J. R. H	, Sixth Edition, Pearson Ianly and E. B. Koffman		
"C: The Complete reference"	, nerbert Schildt, McGi	raw-HIII, 1995.		

opics Covered and Cla		
hours of lectures + 2		
WEEK OF	TOPICS	LABS
Oct 12 – Oct 16	Computers (Hardware and Software)	No Lab
Oct 19 - Oct 23	Problem solving concepts for the computer - Algorithms and Flowcharts	No Lab
Oct 26 - Oct 29	Problem solving concepts for the computer - Algorithms and Flowcharts	Lab 0 - Computer Hardware and Architecture
Nov 2 - Nov 6	Introduction to C (Chapter 1) C Fundamentals (Chapter 2)	Lab 1 - Introduction to DevCpp or MS Visual Studio
Nov 9 - Nov 13	Formatted input / output (Chapter 3)	Lab 2- Sequential Programming
Nov 16 - Nov 20	Expressions (Chapter 4)	Lab 2- Sequential Programming(cont.)
Nov 23 - Nov 27	Selection Structures (Chapter 5)	Lab 3- Selection Structures
Nov 30 - Dec 11	Midterm Exams	No Lab
Dec 14- Dec 18	Repetitive Structures (Chapter 6)	No Lab
Dec 21– Dec 25	Repetitive Structures (Chapter 6) Types - char (Chapter 7)	Lab 4- Repetitive Structures
Dec 28 - Jan 1	Arrays (Chapter 8)	Lab 5- Repetitive Structures (cont.)
Jan 4 – Jan 8	Functions (Chapter 9)	Lab 6-Arrays
Jan 11 – Jan 15	Functions (Chapter 9)	Lab 7-Functions
Jan 18 – Jan 22	Review	
Jan 25- Feb 05	Final Exams	

Course Learning Outcomes

A successful student passing this course gains an ability to

- (1) know the of hardware and software requirements for coding, compiling and executing C programs.(e1,e2,e3)
- (2) use a suitable IDE to edit, compile, and execute C codes (k1,k2,k3)
- (3) construct an algorithm and /or flowchart for solving a problem (e1,e2,e3)
- (4) include library headers, and declare variables of basic types (e1,e2,e3)
- (5) use if, if-then-else and switch statements in C codes (e1,e2,e3)
- (6) use while-loop, do-while loop, and for-loop in C codes (e1,e2,e3)
- (7) use arrays concept in C programming (e1,e2,e3)
- (8) use functions with arguments by value (e1,e2,e3)

The contribution of each course learning outcome to student outcomes is specified in parenthesis. The student outcomes are available at http://cmpe.emu.edu.tr/abet

	Method	No	Percentage
Assessment	Midterm Exam(s)	1	40%
	Final Examination	1	50%
	Labs	8	10%

Attendance and Participation: Attendance to every lecture is mandatory.

Policy on makeups

- Only one makeup exam will be given for the midterm or final at the end of the semester that will cover
 all the topics listed above. That student MUST submit a written report to the course instructor,
 stating their excuse, within 3 days of that examination. The report will be evaluated by the
 committee of instructors. If the committee approves, the student will be able to take a make-up
 exam.
- The re-sit exam will cover both midterm and final topics, and it will replace both midterm and final.
- If you miss both midterm and final exams and did not submit any written report that was approved by the committee, you will get an "NG" grade.

Policy on labs

- No exemption will be provided for labs.
- There will be **no makeup** for the missed lab experiments.
- If you miss **three or more labs**, your lab grade will be zero.

Policy on cheating and plagiarism: Plagiarism (which also includes any kind of cheating in exams, assignments, and lab works) is a disciplinary offence and will be dealt with accordingly. Furthermore, the penalty of plagiarism is to get grade zero for the corresponding exam, assignment, or lab work.

Contribution of Course to ABET Criterion 5

Credit Hours for:

Mathematics & Basic Science: 0Engineering Sciences and Design: 3

General Education : 0

Updated by: H. Altınçay Date Updated: 9 October 2020