Requirements for the B.S. Degree in Computer Engineering

Department of Computer Science and Engineering, University of Central Arkansas 3/25/22 revised

CENG Required Courses (55 hours)

Number	Title	Prerequisites
ENGR 1301	Intro. Engineering	
CSCI 1470	Computer Science I	MATH 1390
CSCI 1480	Computer Science II	CSCI 1470

ENGR 3416	Microprocessor Sys.	ENGR 3415	
ENGR 4311	Senior Design 1	*	
ENGR 4312	Senior Design 2 [Z]	**	
CSCI 4321	Ethical Impl. [D, R]	Junior/senior	
		status, CSCI 2320	
ENGR 4450	Embedded Systems	ENGR 3416	
CSCI 4490	Software Eng. [Z]	CSCI 3381	

CENG Elective Courses (9 hours)

Number	Title	Prerequisites	
ENGR 3340	Image Processing	Junior/senior	
		status	
ENGR 3447	Microelectronics	ENGR 2447	
ENGR 4315	Signal Processing	ENGR 3301	
CSCI	Any upper division		
3xxx/4xxx	CSCI course***		
CSEC	Any upper division		
3xxx/4xxx	CSEC course		

Math Required Courses (20 hours)

Number	Title	Prerequisites	
MATH 1496	Calculus I	(MATH 1390,	
		1392)/MATH 1486	
MATH 1497	Calculus II	MATH 1496	
MATH 2311	Elementary Statistics	MATH 1360/1390	
CSCI 2330	Discrete Math.	CSCI 1480	
MATH 3320	Linear Algebra [I]	MATH 1497/	
		CSCI 2330	
MATH 3331	Differential Eq. I [C]	MATH 1497	

Science Required Courses (12 hours)

Number	Title	Prerequisites
BIOL 1400	Exp. Concepts in Biology	
or		
BIOL 1440	Principles of Biology I	CHEM 1301
PHYS 1441	University Physics I	MATH 1496
PHYS 1442	University Physics II	PHYS 1441

^{* 2.75} GPA or higher in ENGR and PHYS courses and consent of instructor

Notes:

- 1. Prerequisite columns: "A,B" means "A and B"; "A/B" means "A or B".
- 2 UCA Upper Division Core: Communication [C], Critical Inquiry [I], Diversity [D], Responsible Living [R], Capstone [Z]

For additional information, consult your academic advisor or visit $\underline{\text{https://bit.ly/2FbxMjV}}$

 $^{^{\}star\star}$ C or better in ENGR 4311 during the previous semester and consent of instructor

^{***} Except those that are already required