

Curriculum in Computer Engineering

Freshman

Fall	Hours	Spring	Hours
ENGL 1100 English Composition I	3	ENGL 1120 English Composition II	3
PHYS 1600 Engineering Physics I	4	ENGR 1100 Engineering Orientation	0
MATH 1610 Calculus I	4	PHYS 1610 Engineering Physics II	4
Core Fine Arts	3	MATH 1620 Calculus II	4
ENGR 1110 Introduction to Engineering	2	COMP 1210 Fundamentals of Computing I	3
	16		14

Sophomore

Fall	Hours	Spring	Hours
MATH 2650 Linear Differential Equations	3	CHEM 1030 Fundamentals Chemistry I	3
MATH 2630 Calculus III	4	CHEM 1031 Fundamental Chemistry I Laboratory	1
COMP 2210 Fundamentals of Computing II	4	MATH 2660 Topics in Linear Algebra	3
ELEC 2200 Digital Logic Circuits	3	COMP 2710 Software Construction	3
		ELEC 2220 Computer Systems	3
		ELEC 2110 Electric Circuit Analysis	4
	14		17

Junior

Fall	Hours	Spring	Hours
Core History ¹	3	Core History or Core Social Science ¹	3
COMP 3240 Discrete Structures	3	COMP 3270 Introduction to Algorithms	3
COMP 3500 Introduction to Operating Systems	3	ELEC 3050 Embedded System Design Lab	1
ELEC 2120 Linear Signals and Systems Analysis	3	ELEC 3700 Analog Electronics	3
ELEC 2210 Digital Electronics	4	ELEC 3800 Random Signals and Systems	3
		ELEC 4200 Digital System Design	3
	16		16

Senior

Fall	Hours	Spring	Hours
Core Literature ¹	3	PHIL 1020 Introduction to Ethics or 1040 Business Ethics	3
Core Social Science ¹	3	ELEC 4000 Senior Design Projects	3
INSY 3600 Engineering Economy ²	3	ECE Elective	5
ELEC 5200 Computer Architecture and Design	3	Free Elective ²	3
ELEC 5220 Information Networks and Technology	3	UNIV 4AA0 University Graduation	0
	15		14

Total Hours: 122

¹ The AU Bulletin lists the University Core Curriculum requirements for students in the College of Engineering. Students must complete a sequence in either Literature or History. Because of the discipline specific requirements for the Humanities courses, it is recommended that a History sequence be completed in the Social Sciences courses.

² For students completing the ROTC program, the first ROTC course may be used as the 3-hour free elective, and the second ROTC course may be substituted for INSY 3600.

ECE elective - see adviser for approved course listing.