Electrical & Computer Engineering

B.S. in Electrical and Computer Engineering - Curriculum Map 2019-2020 Catalog

Print PDF Curriculum Map (http://catalog.norwich.edu/residentialprogramscatalog/currmaps/elec/Elec_ENG.pdf)

Course	Cr.	Comp.	Course	Cr.	Comp.
FRESHMAN					
Fall			**Spring**		
CH 103 General Chemistry I (General Education Lab Science)	4		EG 110 Introduction to Engineering II	3	
EG 109 Introduction to Engineering I	3		EE 200 Engineering Programming	3	
EN 101 Composition and Literature I	3		EN 102 Composition and Literature II	3	
MA 121 Calculus I (General Education Math)	4		MA 122 Calculus II (General Education Math)	4	
			General Education History/Literature/ Arts & Humanities/Social Science (http://catalog.norwich.edu/archives/2019-20/residentialprogramscatalog/generaleducationgoals)	3	
Fall Semester Total Cr.:	14		Spring Semester Total Cr.:	16	
SOPHOMORE					
Fall			**Spring**		
EE 215 Fundamentals of Digital Design	4		EE 356 Electrical Circuits II	3	
EE 204 Electrical Circuits I	3		EE 357 Electronics I	3	
MA 223 Calculus III	4		EE 359 Electrical Engineering Laboratory	1	
PS 211 University Physics I (General Education Lab Science)	4		MA 224 Differential Equations	4	
General Education History/Literature/ Arts & Humanities/Social Science (http://catalog.norwich.edu/archives/2019-20/residentialprogramscatalog/generaleducationgoals)	3		PS 212 University Physics II	4	
			General Education Leadership (http://catalog.norwich.edu/archives/2019-20/residentialprogramscatalog/generaleducationgoals)	1-3	
Fall Semester Total Cr.:	18		Spring Semester Total Cr.:	16-18	
JUNIOR					
Fall			**Spring**		
EE 321 Embedded Systems	4		EE 303 Electromagnetic Field Theory I	3	
EE 350 Linear Systems	3		EE 323 Computer Architecture or 478 Control Systems	3	
EE 366 Electronics II	4		EE 373 Electrical Energy Conversion	4	
MA 306 Discrete Mathematics	3		EG 206 Thermodynamics I	3	
General Education History/Literature/ Arts & Humanities/Social Science (http://catalog.norwich.edu/archives/2019-20/residentialprogramscatalog/generaleducationgoals)	3		EN 204 Professional and Technical Writing	3	
Fall Semester Total Cr.:	17		Spring Semester Total Cr.:	16	
SENIOR					
Fall			**Spring**		
EE 491 Electrical System Design I (Capstone)	3		EE 411 Infrastructure Control Systems [1]	4	
EE 459 Electric Power Systems [1]	3		EE 478 Control Systems or 323 Computer Architecture	3	
EE 463 Communication Systems	4		EE 486 Digital Signal Processing [1]	3	
EG 450 Professional Issues (General Education Ethics)	3		EE 487 Digital Signal Processing Lab	1	
MA 311 Statistical Methodology	3		EE 494 Electrical System Design II	3	

			General Education History/Literature/ Arts & Humanities/Social Science (http://catalog.norwich.edu/archives/2019-20/residentialprogramscatalog/generaleducationgoals)	3	
Fall Semester Total Cr.:	16		Spring Semester Total Cr.:	17	
TOTAL CREDITS FOR THIS MAJOR: 130-132					

1 Students must complete at LEAST two of the following three courses: EE 411, EE 486, EE 459. Students may choose to complete all three courses, or they may choose two of the three and select one technical elective from the following approved courses: EE 468, EE 490, EG 301, EG 303, EG 350, EG 400, EG 447, ME 307, CS 301, MA 303, MA 310, MA 312, MA 380, MA 405,MA 407, PS 334, PS 356,PS 341, PS 426.

Students who complete all degree requirements, but do not have a minimum 2.0 cumulative GPA must complete at least 50 percent of all subsequent course work in technical material (subject to approval by the Director of the David Crawford School of Engineering).