



**ENGINEERING:
ELECTRICAL & COMPUTER ENGINEERING
ASSOCIATE IN SCIENCE DEGREE
SAMPLE SEQUENCE MAP**

This form is designed to be used in partnership with academic counselors. Modifications may be necessary to meet your goals. Seek assistance from an academic counselor each semester to stay on track to completion of major/certificate. There are 3 General Education patterns available. Not all courses on the map are offered every term. Consult the Catalog and the Schedule of Classes for more details.

0 – 15 UNITS		Pre/Co-req	Units	GE
Semester 1	Area II: Natural Sciences: CHEM 120 –General College Chemistry I	Yes, see catalog	5	II
	ENGIN 110 – Introduction to Engineering		3	
	Area IA: English Composition: ENGL 122 – First-Year College Composition and Reading	Placement	3	IA
	Area IC: Mathematics Comprehension: MATH 192 – Analytic Geometry & Calculus I	Yes, see catalog	5	IC
	Total		16	

16 – 30 UNITS		Pre/Co-req	Units	GE
Semester 2	COMSC 165 – Programming with C and C++	ENGIN 135 or COMSC 110	4	
	MATH 193 – Analytic Geometry and Calculus II	MATH 192	5	
	PHYS 130 – Mechanics and Wave Motion	Yes, see catalog	4	
	Area III: Arts and Humanities		3	III
	Total		16	

31 – 45 UNITS		Pre/Co-req	Units	GE
Semester 3	COMSC 210 – Program Design and Data Surfaces	COMSC 165	4	
	MATH 292 – Analytic Geometry and Calculus III	MATH 193	5	
	PHYS 230 – Heat and Electro-Magnetism	PHYS 130, MATH 292	4	
	Area IB: Communications and Analytical Thinking		3	IB
	Total		16	

46 – 60+ UNITS		Pre/Co-req	Units	GE
Semester 4	ENGIN 230 – Introduction to Circuits and Devices	MATH 193, PHYS 230	4	
	PHYS 231 – Optics and Modern Physics	PHYS 230	4	
	MATH 294 – Differential Equations	MATH 292	5	
	Major Applicable Elective: <i>At least 3 unites from Engineering catalog</i>	See catalog	3-5	
	Total		16	

Program Total: 60