

ASSOCIATE IN SCIENCE – ENGINEERING: ELECTRICAL & COMPUTER ENGINEERING

SAMPLE SEQUENCE MAP



Suggested course sequence for full-time student

2018-2019 Catalog

	Course # and Title	Pre/Co-req	Units	GE
Semester 1	CHEM 120 – General College Chemistry I	AB - 705	5	II
	ENGIN 110 – Introduction to Engineering		3	
	ENGIN 135 – Programming for Scientists and Engineers		4	
	MATH 192 – Analytic Geometry & Calculus I	MATH 191	5	IB/ IC
	Total		16	

	Course # and Title	Pre/Co-req	Units	GE
Semester 2	COMSC 165 – Programming with C and C++	ENGIN 135 or COMSC 110	4	
	ENGL 122 – Freshman English		3	IA
	MATH 193 – Analytic Geometry and Calculus II	MATH 192	5	IB/IC
	PHYS 130 – Mechanics and Wave Motion	Pre-req: 129, Co-req: MATH 193	4	II
	Arts and Humanities Area		3	III
	Total		19	

	Course # and Title	Pre/Co-req	Units	GE
Semester 3	COMSC 210 – Program Design and Data Surfaces	COMSC 165	4	
	ENGIN 130– Energy, Society, Environ or ENGIN 131 - Tech and Society		3	IV
	MATH 292 – Analytic Geometry and Calculus III	MATH 193	5	
	PHYS 230 – Heat and Electro-Magnetism	PHYS 130, MATH 292	4	II
	Total		16	

	Course # and Title	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	II
	MATH 294 – Differential Equations	MATH 292	5	IC
	ENGIN 136 –Programming using MATLAB <i>Recommended</i>	MATH 292	4	
	Total		17	

Program total: 68

Note:

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.