

ASSOCIATE IN SCIENCE - ENGINEERING: MECHANICAL

SAMPLE SEQUENCE MAP



Suggested course sequence for full-time student 2018-2019 Catalog

	Course # and Title	Pre/Co-req	Credits	GE
Semester 1	CHEM 120 – General College Chemistry I	AB - 705	4	II
	ENGIN 110 – Introduction to Engineering		3	
	ENGIN 130 – Energy, Society and the Environment		3	IV
	ENGL 122 – Freshman English	Placement or Pre-req	3	IA
	MATH 192 – Analytic Geometry and Calculus I	MATH 191 or Placement	5	IC
	Total		18	

	Course # and Title	Pre/Co-req	Credits	GE
Semester 2	ENGIN 135 or 136 – Computer Programming	MATH 192	4	
	ENGIN 120 – Engineering Drawing		3	
	MATH 193 – Analytic Geometry and Calculus II	MATH 192	5	IB/IC
	PHYS 130 – Mechanics and Wave Motion	Pre-req: PHYS 129, Co-req: MATH 193	4	II
	Total		16	

	Course # and Title	Pre/Co-req	Credits	GE
Semester 3	ENGIN 240 – Properties of Engineering Materials	CHEM 120, PHYS 130	4	
	MATH 292 – Analytic Geometry and Calculus III	MATH 193	5	IC
	PHYS 230 – Heat and Electro-Magnetism	Pre-req: PHYS130, Co-req: MATH292	4	II
	Arts and Humanities Area		3	III
	Total		16	

	Course # and Title	Pre/Co-req	Credits	GE
Semester 4	Degree Applicable Elective: <i>recommend: ENGIN 210 – Thermodynamics</i>	CHEM 120, PHYS 230	3	
	ENGIN 230 – Introduction to Circuits and Devices	MATH 193, PHYS 230	4	
	MATH 294 – Differential Equations	MATH 292	5	IC
	Degree Applicable Elective to reach 60 credits: <i>recommend: PHYS 231 – Optics and Modern Physics</i>	PHYS 130, MATH 292	4	
		Total		16

Program total: 66

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.