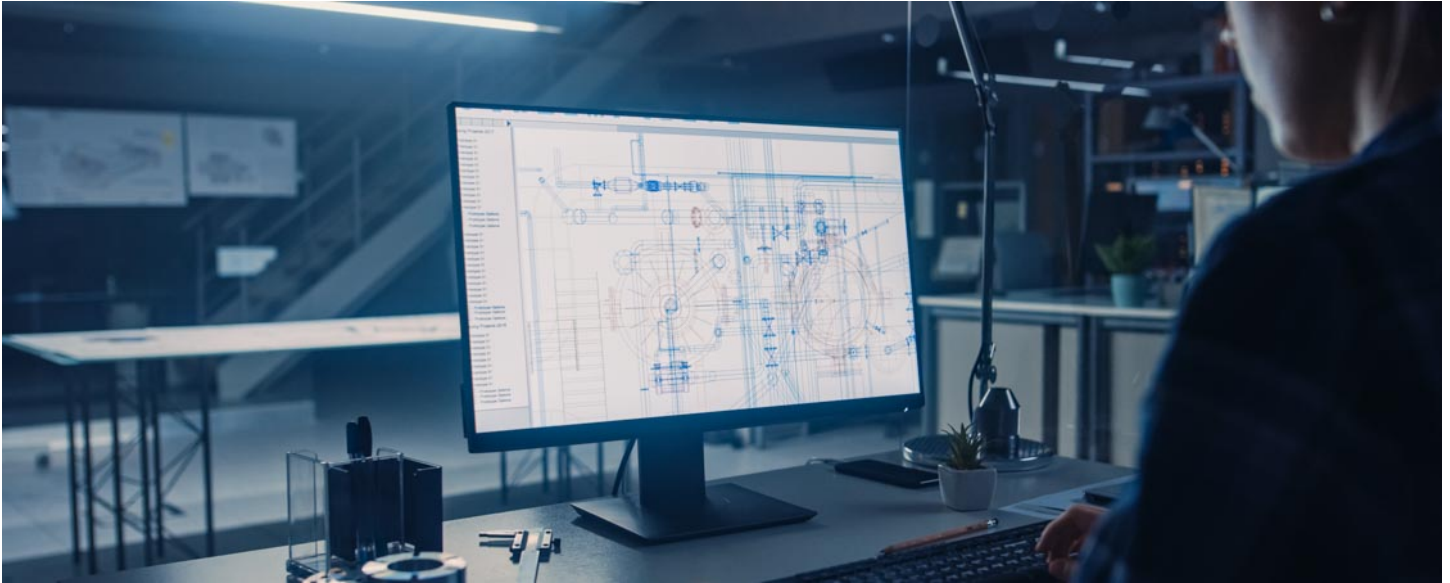


# ENGINEERING MECHANICS, ASSOCIATE IN ENGINEERING SCIENCE



College(s): DA, HW, TR, WR

Program Code: 0100

## Pathway

All plans can be modified to fit the needs of part-time students by adding more semesters.

*Recommended electives may vary by transfer institution. Choose your courses with your College Advisor.*

Semester	Course	Hours	
Semester 1	ENGLISH 101	Composition <sup>1</sup>	3
	MATH 207	Calculus & Analytic Geometry I <sup>1</sup>	5
	CHEM 201	General Chemistry I <sup>1</sup>	5
	Social and Behavioral Sciences course <sup>1,2</sup>		3
Hours		16	
Semester 2	ENGLISH 102	Composition <sup>1</sup>	3
	MATH 208	Calculus & Analytic Geometry II	5
	PHYSICS 235	Engineering Physics I: Mechanics & Wave Motion	5
	CHEM 203	General Chemistry II <sup>3</sup>	5
	Hours		18
Semester 3	MATH 209	Calculus & Analytic Geometry III	5
	PHYSICS 236	Engineering Physics II: Electricity & Magnetism	5
	ENGR 190	Computer Programming for Engineers	3
	or CIS 142	or C++ Object Oriented Programming I	
	PHYSICS 215	Statics <sup>3</sup>	3
Hours		16	
Semester 4	MATH 210	Differential Equations	3
	Fine Arts or Humanities course <sup>1,2</sup>		3
	PHYSICS 216	Dynamics <sup>3</sup>	3

PHYSICS 217	Mechanics Of Materials <sup>3</sup>	3
ENGR 225	Introduction to Thermodynamics <sup>3</sup>	3
Hours		15
Total Hours		65

1

General Education course

2

One course must satisfy the Human Diversity (HD) requirement

3

Pathway Elective (p. 1)

## Pathway Electives

Code	Title	Hours
CHEM 203	General Chemistry II	5
ENGR 111	Engineering Success Seminar	3
ENGR 225	Introduction to Thermodynamics	3
PHYSICS 215	Statics	3
PHYSICS 216	Dynamics	3
PHYSICS 217	Mechanics Of Materials	3
PHYSICS 237	Engineering Physics III: Heat light and Modern Physics	5