

# ENGINEERING, 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 1		Hours
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		Hours
ENGLISH 102	Composition <sup>1</sup>	3
MATH 208	Calculus & Analytic Geometry II	5
PHYSICS 235	Engineering Physics I: Mechanics & Wave Motion	5
Pathway Elective (p. 1) <sup>3,4</sup>		5
Hours		18
Semester 3		Hours
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	
Pathway Elective (p. 1) <sup>3</sup>		3
Hours		16
Semester 4		Hours
MATH 210	Differential Equations	3
Fine Arts or Humanities course <sup>1,2</sup>		3
Pathway Elective (p. 1) <sup>3</sup>		5
Pathway Elective (p. 1) <sup>3</sup>		3
Hours		14
Total Hours		64

1

General Education course

2

One course must satisfy the Human Diversity (HD) requirement

3

Pathway Elective (p. 1)

4

CHEM 203 General Chemistry II or BIOLOGY 121 Biology I recommended for Semester 2 Pathway Elective

## Pathway Electives

Code	Title	Hours
BIOLOGY 121	Biology I	5
BIOLOGY 115	Human Biology	4
CHEM 203	General Chemistry II	5
CHEM 205	Organic Chemistry I	6
CHEM 207	Organic Chemistry II	6
CIS 144	Java Object Oriented Programming I	3
CIS 242	C++ Object Oriented Programming II	3
CIS 244	Java Object Oriented Programming II	3
ENGR 111	Engineering Success Seminar	3
ENGR 131	Engineering Graphics & Intro to Design	3
ENGR 215	Electrical Circuit Analysis	5
ENGR 225	Introduction to Thermodynamics	3
ENGR 250	Engineering Projects	1-2
MATH 146	Discrete Mathematics	4
MATH 212	Linear Algebra	3
PHYSICS 215	Statics	3
PHYSICS 216	Dynamics	3
PHYSICS 217	Mechanics Of Materials	3

PHYSICS 237    Engineering Physics III: Heat light and Modern    5  
Physics