

# INDUSTRIAL 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.*

Course	Title	Hours
<b>Semester 1</b>		
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
<b>Semester 2</b>		
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
<b>Semester 3</b>		
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
<b>Semester 4</b>		
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
Pathway Elective (p. 1) <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
CHEM 205	Organic Chemistry I	6
ENGR 111	Intro To The Engineering Profession	2
ENGR 215	Electrical Circuit Analysis	5
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