

# BIOENGINEERING, 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.*

Institution-specific transfer guides and agreements can be found on CCC's transfer site (<https://www.ccc.edu/services/Pages/Transfer-Guides.aspx>).

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
<b>Hours</b>	<b>16</b>
<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
<b>Hours</b>	<b>18</b>
<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 or CIS 142 or C++ Object Oriented Programming I	3
Pathway Elective (p. 1) <sup>3</sup>	3
<b>Hours</b>	<b>16</b>
<b>Semester 4</b>	
MATH 210 Differential Equations	3

Fine Arts course or Humanities course <sup>1,2</sup>	3
BIOLOGY 121 Biology I <sup>3</sup>	5
ENGR 225 Introduction to Thermodynamics <sup>3</sup>	3
<b>Hours</b>	<b>14</b>
<b>Total Hours</b>	<b>64</b>

<sup>1</sup> General Education course

<sup>2</sup> One course must satisfy the Human Diversity (HD) requirement

<sup>3</sup> Pathway Elective (p. 1)

## Pathway Electives

Code	Title	Hours
CHEM 203	General Chemistry II	5
BIOLOGY 121	Biology I	5
ENGR 111	Engineering Success Seminar	3
ENGR 215	Electrical Circuit Analysis	5
ENGR 225	Introduction to Thermodynamics	3