

# BIOENGINEERING, ASSOCIATE IN ENGINEERING SCIENCE



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

Program Code: 0100

## Sample Transfer 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<br>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     |