

# ENGINEERING, 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>
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
<b>Hours</b>		<b>18</b>
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
<b>Hours</b>		<b>16</b>
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
<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)  
<sup>4</sup> 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 Physics	5
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