

# College Transfer Associate in Engineering (A. E.) Degree

The following are suggested course plans if you would like to complete the Associate in Engineering and transfer to a four-year school for a variety of majors. These plans are based on the program requirements of the 2024-2025 catalog. These are only recommendations — you may take courses in another order upon consultation with your advisor. These plans are based on you starting with college-level math and English courses, starting your program in the fall, and attending full-time. You can also follow these sequences if you attend part-time. Speak with an advisor about your plans and note that recommendations may vary depending on your intended transfer institution.

Course Sequences by Major:

## Civil Engineering Transfer Pathway

Term I		Credits
ENG 111	Writing and Inquiry	3.0
ACA 122	College Transfer Success	1.0
EGR 150	Introduction to Engineering	2.0
MAT 171	Precalculus Algebra	4.0
ECO 251	Principles of Microeconomics	3.0
<b>Credits</b>		<b>13</b>
Term II		Credits
ENG 112	Writing and Research in the Disciplines	3.0
COM 231	Public Speaking	3.0
MAT 172	Precalculus Trigonometry	4.0
CHM 151	General Chemistry I	4.0
Behavioral/Social Science		3.0
<b>Credits</b>		<b>17</b>
Term III		Credits
MAT 271	Calculus I	4.0
<b>Credits</b>		<b>4</b>
Term IV		Credits
MAT 272	Calculus II	4.0
PHY 251	General Physics I	4.0
ENG 231	American Literature I	3.0
or ENG 232	or American Literature II	
CSC 134	C++ Programming	3.0
CHM 152	General Chemistry II	4.0
or BIO 111	or General Biology I	
<b>Credits</b>		<b>18</b>
Term V		Credits
MAT 273	Calculus III	4.0
PHY 252	General Physics II	4.0
MAT 285	Differential Equations	3.0
MAT 280	Linear Algebra	3.0
EGR 212	Logic System Design I	3.0
<b>Credits</b>		<b>17</b>
<b>Total Credits</b>		<b>69</b>

## Computer & Electrical Engineering Transfer Pathway

Term I		Credits
ENG 111	Writing and Inquiry	3.0
ACA 122	College Transfer Success	1.0

EGR 150	Introduction to Engineering	2.0
MAT 171	Precalculus Algebra	4.0
ECO 251	Principles of Microeconomics	3.0
<b>Credits</b>		<b>13</b>

Term II		Credits
ENG 112	Writing and Research in the Disciplines	3.0
COM 231	Public Speaking	3.0
MAT 172	Precalculus Trigonometry	4.0
CHM 151	General Chemistry I	4.0
Behavioral/Social Science		3.0
<b>Credits</b>		<b>17</b>

Term III		Credits
MAT 271	Calculus I	4.0
<b>Credits</b>		<b>4</b>

Term IV		Credits
MAT 272	Calculus II	4.0
PHY 251	General Physics I	4.0
ENG 231	American Literature I	3.0
or ENG 232	or American Literature II	
CSC 134	C++ Programming	3.0
CHM 152	General Chemistry II	4.0
or BIO 111	or General Biology I	
<b>Credits</b>		<b>18</b>

Term V		Credits
MAT 273	Calculus III	4.0
PHY 252	General Physics II	4.0
MAT 285	Differential Equations	3.0
MAT 280	Linear Algebra	3.0
EGR 212	Logic System Design I	3.0
<b>Credits</b>		<b>17</b>
<b>Total Credits</b>		<b>69</b>

## Mechanical Engineering Transfer Pathway

Term I		Credits
ENG 111	Writing and Inquiry	3.0
ACA 122	College Transfer Success	1.0
EGR 150	Introduction to Engineering	2.0
MAT 171	Precalculus Algebra	4.0
ECO 251	Principles of Microeconomics	3.0
<b>Credits</b>		<b>13</b>

Term II		Credits
ENG 112	Writing and Research in the Disciplines	3.0
COM 231	Public Speaking	3.0
MAT 172	Precalculus Trigonometry	4.0
CHM 151	General Chemistry I	4.0
Behavioral/Social Science		3.0
<b>Credits</b>		<b>17</b>

Term III		Credits
MAT 271	Calculus I	4.0
<b>Credits</b>		<b>4</b>

Term IV		Credits
MAT 272	Calculus II	4.0
PHY 251	General Physics I	4.0
ENG 231	American Literature I	3.0
or ENG 232	or American Literature II	
CHM 152	General Chemistry II	4.0
DFT 170	Engineering Graphics	3.0
<b>Credits</b>		<b>18</b>

Term V		Credits
MAT 273	Calculus III	4.0
PHY 252	General Physics II	4.0

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MAT 280	Linear Algebra	3.0
MAT 285	Differential Equations	3.0
EGR 220	Engineering Statics	3.0
<b>Credits</b>		<b>17</b>
<b>Total Credits</b>		<b>69</b>

## Systems Engineering Transfer Pathway

Term I		Credits
ENG 111	Writing and Inquiry	3.0
ACA 122	College Transfer Success	1.0
EGR 150	Introduction to Engineering	2.0
MAT 171	Precalculus Algebra	4.0
ECO 251	Principles of Microeconomics	3.0
<b>Credits</b>		<b>13</b>

Term II		Credits
ENG 112	Writing and Research in the Disciplines	3.0
COM 231	Public Speaking	3.0
MAT 172	Precalculus Trigonometry	4.0
CHM 151	General Chemistry I	4.0
Behavioral/Social Science		3.0
<b>Credits</b>		<b>17</b>

Term III		Credits
MAT 271	Calculus I	4.0
<b>Credits</b>		<b>4</b>

Term IV		Credits
MAT 272	Calculus II	4.0
PHY 251	General Physics I	4.0
ENG 231 or ENG 232	American Literature I or American Literature II	3.0
CHM 152	General Chemistry II	4.0
MAT 280	Linear Algebra	3.0
<b>Credits</b>		<b>18</b>

Term V		Credits
MAT 273	Calculus III	4.0
PHY 252	General Physics II	4.0
MAT 285	Differential Equations	3.0
EGR 212	Logic System Design I	3.0
EGR 220	Engineering Statics	3.0
<b>Credits</b>		<b>17</b>
<b>Total Credits</b>		<b>69</b>