

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 2025-2026 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
Credits		13
Term II		
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
Credits		17
Term III		
MAT 271	Calculus I	4.0
Credits		4
Term IV		
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	
Credits		18
Term V		
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
Credits		17
Total Credits		69

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
Credits		13

Term II		
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
Credits		17

Term III		
MAT 271	Calculus I	4.0
Credits		4

Term IV		
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	
Credits		18

Term V		
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
Credits		17
Total Credits		69

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
Credits		13

Term II		
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
Credits		17

Term III		
MAT 271	Calculus I	4.0
Credits		4

Term IV		
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
Credits		18

Term V		
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
Credits		17
Total Credits		69

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
Credits		13

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
Credits		17

Term III		Credits
MAT 271	Calculus I	4.0
Credits		4

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
Credits		18

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
Credits		17
Total Credits		69