



Pre-Engineering Mechanical (Algebra Start)
Associate in Applied Science
Six Semester Pathway Academic Year 2025-2026

Semester 1 (Fall)	Requirement	Recommended	Prerequisites	Corequisites	Credits	My Plan
ENGR 100	Introduction to Engineering		ENGL 080 or ENGL 101		2	
ENGL 100	English Composition		ENGL 080		3	
	Social Science Elective		See course prerequisites	See course corequisites	3	
MATH 140	College Algebra		MATH 040		3	
MATH 146	Introduction to Trigonometry		MATH 040	MATH 140	1	
Semester 2 (Spring)	Requirement	Recommended	Prerequisites	Corequisites	Credits	My Plan
COMM 201	Technical Writing/Communications		ENGL 100 or ENGL 101		3	
MATH 190	Precalculus		MATH 140, MATH 146		3	
ENGL 110	Oral Communications		ENGL 080 or ENGL 101		3	
ENGL 115	Introduction to Literature		ENGL 100 or ENGL 101		3	
Semester 3 (Fall)	Requirement	Recommended	Prerequisites	Corequisites	Credits	My Plan
MATH 260	Calculus I		MATH 190		4	
CHEM 131	Chemistry for Engineers with Lab	Offered Fall only	MATH 190		4	
Semester 4 (Spring)	Requirement	Recommended	Prerequisites	Corequisites	Credits	My Plan
ENGR 216	Circuits I: Steady State Analysis	Offered Spring only		MATH 270, PHYS 250	3	
MATH 270	Calculus II		MATH 260		4	
PHYS 200	Physics for Engineers I with Lab	Offered Spring only	MATH 190	MATH 260	4	
Semester 5 (Fall)	Requirement	Recommended	Prerequisites	Corequisites	Credits	My Plan
MATH 275	Intro to Differential Equations and Linear Algebra	Offered Fall only	MATH 270		4	
ENGR 230	Thermodynamics I: Laws & Properties	Offered Fall only	MATH 270, PHYS 200		3	
PHYS 250	Physics for Engineers II with Lab	Offered Fall only	MATH 260, PHYS 200		4	
ENGR 200	Engineering Statics	Offered Fall only	ENGR 100, MATH 260, PHYS 200		3	
Semester 6 (Spring)	Requirement	Recommended	Prerequisites	Corequisites	Credits	My Plan
ENGR 250	Strength of Materials	Offered Spring only	ENGR 200, MATH 270		3	
MATH 280	Calculus III		MATH 270		4	

[Advice on Choosing Electives](#)



Associate in Applied Science Curriculum Worksheet

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General Education Requirements					
COURSE CODE	COURSE TITLE	PREREQUISITES	COREQUISITES	CREDITS	MET
ENGL 100	English Composition	ENGL 080		3	
ENGL 115	Introduction to Literature	ENGL 100 or ENGL 101		3	
MATH 140	College Algebra	MATH 040		3	
MATH 146	Introduction to Trigonometry	MATH 040	MATH 140	1	
MATH 190	Precalculus	MATH 140, MATH 146		3	
CHEM 131	Chemistry for Engineers with Lab	MATH 190		4	
ENGL 110	Oral Communications	ENGL 080 or ENGL 101		3	
	Social Science Electives			3	
Major Required Courses					
COURSE CODE	COURSE TITLE	PREREQUISITES	COREQUISITES	CREDITS	MET
COMM 201	Technical Writing	ENGL 100 or ENGL 101		3	
ENGR 100	Introduction to Engineering	ENGL 080 or ENGL 101		2	
ENGR 216	Circuits I: Steady State		MATH 270, PHYS 250	3	
ENGR 200	Engineering Statics	ENGR 100, PHYS 200, MATH 260		3	
ENGR 230	Thermodynamics I: Laws & Properties	MATH 270, PHYS 200		3	
ENGR 250	Strength of Materials	ENGR 200, MATH 270		3	
MATH 260	Calculus I	MATH 190		4	
MATH 270	Calculus II	MATH 260		4	
MATH 275	Introduction to Differential Equations with Linear Algebra	MATH 270		4	
MATH 280	Calculus III	MATH 270		4	
PHYS 200	Physics for Engineers I with Lab	MATH 190	MATH 260	4	
PHYS 250	Physics for Engineers II with Lab	PHYS 200, MATH 260		4	

2025-2026