

Degree Pathway

A.A.S. in Mechanical Engineering Technology – Catalog Year 2024-25

The number of credits you take each year will determine when you graduate. To graduate on time, you are strongly encouraged to enroll in at least 30 credits toward your degree during the calendar year, including fall and spring semesters and winter and summer sessions. **This Degree Pathway is designed for students who place into developmental mathematics.** Additional Degree Pathways are available for students who place into other levels of mathematics. Please see the degree website or your advisor for more information.

Courses in **Bold Text** are prerequisites for later courses or only offered in the Fall or Spring semester and should be taken where indicated in the sequence.

Fall Semester #1

Courses	Credits	Prerequisites and Corequisites ¹
MA-114 College Algebra and Trigonometry for Technical Students (Required Core 1B: Mathematical and Quantitative Reasoning)	4	Pre/corequisite: Must satisfy developmental requirement in math or be co-enrolled in MA-114 ALP
MA-114 ALP College Algebra and Trigonometry for Technical Students	0 (3 eq.)	Corequisite: MA-114
MT-111 Technical Graphics	2	None
MT-122 Manufacturing Process	3	Corequisite: MT-111
MT-293 Parametric Computer Aided Design	3	Corequisite: MT-111
TECH-100 Introduction to Engineering and Technology	1	None
Total credits for the term	13 + 3 eq.	

Spring Semester #1

Courses	Credits	Prerequisites and Corequisites ¹
ENGL-101 English Composition I (ALP section) (Required Core 1A - English Composition)	3	Pre/corequisite: Must satisfy developmental requirement in English or be co-enrolled in ENGL-99
ENGL-99 Developing Competence in College Reading, Writing, & Study Skills	0 (4 eq.)	Corequisite: ENGL-101
MA-128 Calculus for Technical and Business Students²	4	Prerequisite: MA-114 (C or better)
MT-161 Fundamentals of Computer Numerical Control	3	Prerequisite: MT-122 or permission of the Department
Major Elective: Choose from MT-125, MT-346 or MT-514	1	Check individual courses for prerequisites and corequisites
Total credits for the term	11 + 4 eq.	

Summer Term

Courses	Credits	Prerequisites and Corequisites ¹
ENGL-102 English Composition II (Required Core 1A - English Composition)	3	Prerequisite: ENGL-101 or placement
PH-201 General Physics I³ (Required Core 1C – Life and Physical Sciences)	4	Prerequisites: MA-114 or MA-119 and MA-121
Total credits for the term	7	

Fall Semester #2

Courses	Credits	Prerequisites and Corequisites ¹
MT-124 Metallurgy and Materials	3	Prerequisite: Complete developmental reqs in English and math
MT-341 Applied Mechanics	3	Corequisite: PH-201
MT-491 Computer Controlled Manufacturing	2	Prerequisite: MT-161
MT-492 Introduction to Virtual Automation	2	Corequisite: MT-293
MT-523 Thermodynamics	3	Prerequisites: MA-128 and PH-201 (both C or better)
One History or Social Science course from Flexible Core 2A, 2B, 2D, or 2E – (HIST-100 series, ANTH, CRIM-101 or 102, ECON, PLSC, PSYC, or SOCY) ³	3	Check individual courses for prerequisites and corequisites
Total credits for the term	16	

Spring Semester #2

Courses	Credits	Prerequisites and Corequisites ¹
PH-202 General Physics II ^{3,4} (Flexible Core 2E – Scientific World)	4	Prerequisite: PH-201 (C or better)
MT-140 Engineering Analysis	1	Corequisite: PH-201
MT-345 Strength of Materials	3	Prerequisite: MT-341
MT-369 Computer Applications in Engineering Technology	3	Prerequisite: MT-161
Major Elective: Select from list below	3	Check individual courses for prerequisites and corequisites
One History or Social Science course from Flexible Core 2A, 2B, 2D, or 2E – (HIST-100 series, ANTH, CRIM-101 or 102, ECON, PLSC, PSYC, or SOCY) ³	3	Check individual courses for prerequisites and corequisites
Total credits for the term	17	
Total credits required for the A.A.S. degree	64	

Notes:

1. Prerequisites for a course must be passed before taking the course. Corequisites must be passed before taking the course or taken in the same term as the course.
2. Students may substitute MA-440 and MA-441 for MA-114 and MA-128
3. Students are required to take specific courses in some areas of the Common Core that fulfill both general education and major requirements. If students do not take the required courses in the Common Core, they will have to take additional credits to complete their degree requirements.
4. Students may substitute PH-301 and PH-302 or PH-421 and PH-422 for PH-201 and PH-202.

All students must complete two (2) WI designated classes to fulfill degree requirements.

Major Elective Courses – complete at least 4 credits from this list

Major Elective Courses	Credits	Prerequisites and Corequisites
MT-125 Metallurgy and Materials Laboratory	1	Corequisite: MT-124
MT-488 Computer-Aided Design I	3	None
MT-900 Cooperative Education/Design Projects in Engineering Technology	3	Open only to matriculated students who have completed at least 12 pertinent credits in an Engineering Technology related curricula.