

Recommended Course Sequence

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.

A.A.S. Degree in Mechanical Engineering Technology - Catalog Year 2017-18

Fall Semester #1

Courses	Credits	Pre-requisites and co-requisites
MA 114 College Algebra & Trigonometry for Technical Students* (Required Core 1.B. Mathematical and Quantitative Reasoning)	4	Pre-req.: MA 10 or passing score on the CUNY math placement exam, or exemption Pre-req. for MA 440: MA 114 or MA 119 & 121 with C or better
MT 111 Technical Graphics	2	none
MT 293 Parametric Computer Aided Design	3	Co-req.: MT 111
MT 492 Introduction to Virtual Automation	2	Co-req.: MT 293
TECH 100 Introduction to Engineering and Technology	1	none
ENGL 101 English Composition I (Required Core 1.A. – English Composition)	3	Pre-req.: BE 112/205 and 122/226 or passing score on CUNY placement, or exemption
Total credits for the term	15	

Spring Semester #1

Courses	Credits	Pre-requisites and co-requisites
MA 128 Calculus for Technical and Business students*	4	Pre-req.: MA 114 with grade of C or better Pre-req. for MA 441: MA 440 with C or better
MT 140 Engineering Analysis	1	Co-req.: PH 201
MT 122 Manufacturing Process	3	Pre-req.: MT 111
MT Elective: Choose from MT 125, MT 346 or MT 514	1	Check individual courses for pre and co-requisites
PH 201 General Physics I ** (Required Core 1.C. Life & Physical Sciences)	4	Pre-req.: MA 114 or 119 and 121
ENGL 102 English Composition II (Required Core 1.A. – English Composition)	3	Pre-req.: ENGL 101 or placement
Total credits for the term	16	

Fall Semester #2

Courses	Credits	Pre-requisites and co-requisites
MT 341 Applied Mechanics	3	Pre-req.: PH 201 with a grade of C or better
MT 124 Metallurgy and Materials	3	Pre-req.: MT 122 or permission of the Department Co-req.: MT 125
MT 161 Fundamentals of Computer Numerical Control	3	Pre-req.: MT 122 or permission of the Department
PH 202 General Physics II** (Flexible Core 2.E Scientific World)	4	Pre-req.: PH 201 with grade of C or better
Flexible Core –Social Sciences or History: select one course from: 2. A, World Cultures and Global Issues OR 2.B. US in its Diversity OR 2.D. Individual & Society OR 2.E. Scientific World	3	Check individual course pre- and co-requisites
Total credits for the term	16	

Spring Semester #2

Courses	Credits	Pre-requisites and co-requisites
MT 513 Thermo-Fluid Systems	3	Pre-req.: MT 345 with a grade of C or higher Co-req.: MT 514
MT 345 Strength of Materials	3	Pre-req.: MT 341 Co-req.: MT 346
MT 369 Computer Applications in Engineering Technology	3	Pre-req.: MT 161
MT 491 Computer Controlled Manufacturing	2	Pre-req.: MT 161
MT Elective: Choose from: MT 125, MT 162, MT163, MT164, MT 346, MT 488, MT 514, MT 900.	3	Check individual courses for pre and co-requisites
Flexible Core -Select one Social Sciences or History course from 2. A, B, D, or E	3	Check course pre-requisites and co-requisites
Total credits for the term	17	
Total credits required for the A.A.S. in Mechanical Engineering Technology	64	

Notes:

1. All students must complete two (2) WI designated classes to fulfill degree requirements.
2. Students in degree programs must complete any required remedial speech courses before graduation.
3. *Students may substitute MA 440 and MA 441 for MA 114 and MA 128.
4. **PH 301 and PH 302 or PH 411, 412 and 413 may be substituted for PH 201 and PH 202.
5. INDICATE IF ANY COURSES ARE OFFERED ONLY IN FALL OR SPRING SEMESTERS