

Mechanical Engineering Major

B.S. in Mechanical Engineering - Curriculum Map 2019-2020 Catalog

Course	Cr.Comp	Course	Cr.Comp
FRESHMAN			
Fall		Spring	
CH 103 General Chemistry I (General Education Lab Science)	4	CH 104 General Chemistry II (General Education Lab Science)	4
EG 109 Introduction to Engineering I	3	EN 102 Composition and Literature II	3
EN 101 Composition and Literature I	3	EG 110 Introduction to Engineering II	3
MA 121 Calculus I	4	General Education History/Literature/Arts & Humanities/Social Science (http://catalog.norwich.edu/residentialprograms/catalog/generaleducationgoals)	3
		MA 122 Calculus II (General Education Math)	4
Fall Semester Total Cr.:	14	Spring Semester Total Cr.:	17
SOPHOMORE			
Fall		Spring	
EE 204 Electrical Circuits I	3	EE 240 Electrical Concepts and Applications	3
EG 201 Engineering Mechanics (Statics, Dynamics)	3	EG 202 Engineering Mechanics (Statics, Dynamics)	3
MA 223 Calculus III (General Education Math)	4	EG 206 Thermodynamics I	3
ME 211 Mechanical Engineering Tools I	2	MA 224 Differential Equations	4
PS 211 University Physics I	4	PS 212 University Physics II	4
Fall Semester Total Cr.:	16	Spring Semester Total Cr.:	17
JUNIOR			
Fall		Spring	
EG 203 Materials Science	3	EG 303 Fluid Mechanics	3
EG 301 Mechanics of Materials	3	ME 356 Manufacturing Processes	4
ME 307 Thermodynamics II	3	ME 368 Design of Machine Elements	3
ME 311 Mechanical Engineering Tools II	2	ME 370 Mechanical Systems Design	3
ME 363 Kinematic and Kinetic Synthesis	3	ME 382 Mechanical Engineering Laboratory II	1
ME 381 Mechanical Engineering Laboratory I	2	General Education History/Literature/Arts & Humanities/Social Science (http://catalog.norwich.edu/residentialprograms/catalog/generaleducationgoals)	3
		General Education Leadership (http://catalog.norwich.edu/residentialprograms/catalog/generaleducationgoals)	1-3
Fall Semester Total Cr.:	16	Spring Semester Total Cr.:	18-20
SENIOR			
Fall		Spring	
EE 321 Embedded Systems	4	ME 468 Mechanical Engineering Design II (Capstone)	3
EG 044 Conference	0	EG 450 Professional Issues (General Education Ethics)	3
ME 435 Mechanical Control Systems	3	Math or Science or Engineering Elective ¹	3
ME 465 Heat Transfer	3	Mechanical Engineering (ME) Elective ²	3
ME 467 Mechanical Engineering Design I (Capstone)	3	General Education History/Literature/Arts & Humanities/Social Science (http://catalog.norwich.edu/residentialprograms/catalog/generaleducationgoals)	3
ME 487 Mechanical Engineering Laboratory III	2	General Education Elective (http://catalog.norwich.edu/residentialprograms/catalog/generaleducationgoals) ³	3

General Education History/Literature/ Arts & Humanities/Social Science (http://catalog.norwich.edu/ residentialprograms/catalog/ generaleducationgoals)	3			
Fall Semester Total Cr.:	18	Spring Semester Total Cr.:	18	
TOTAL CREDITS FOR THIS MAJOR: 134-136				

An undergraduate student, who has completed all degree requirements except for attaining a 2.00 average, must take at least 50 percent of all subsequent course work in technical material (subject to approval by the Director of the David Crawford School of Engineering).

- 1 Courses approved for Math/Science/Engineering Electives: CE 348, CH 205, CH 225, CH 327, EE 303, EE 325, EE 357, MA 241, MA 306, MA 309, MA 310, MA 370, MA 407, PS 334, PS 341, PS 426, PS 428, and any ME 400 level course not specifically listed as a degree requirement.
Other 200 level (or higher) 3+ credit courses offered by College of Science and Mathematics or the David Crawford School of Engineering may be approved subject to completion of the course prerequisites and a positive recommendation from the student's academic advisor and the Mechanical Engineering department chair.
- 2 Two different ME 490 courses covering different topics can be used to satisfy the ME elective and the Math/Science/Engineering elective.
- 3 A fifth General Education Elective is required, choose from History, Literature, Arts & Humanities or Social Science.