

Mechanical Engineering Major

Print PDF Curriculum Map (<http://catalog.norwich.edu/residentialprogramscatalog/me/Mechanical.pdf>)

B.S. in Mechanical Engineering - Curriculum Map 2017-2018 Catalog

Freshman			
Fall	Cr.	Spring	Cr.
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/residentialprogramscatalog/generaleducationgoals)	3
		MA 122 Calculus II (General Education Math)	4
Semester Total Credits	14	Semester Total Credits	17
Sophomore			
Fall	Cr.	Spring	Cr.
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
Semester Total Credits	16	Semester Total Credits	17
Junior			
Fall	Cr.	Spring	Cr.
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/residentialprogramscatalog/generaleducationgoals)	3
Semester Total Credits	16	Semester Total Credits	17
Senior			
Fall	Cr.	Spring	Cr.
EE 321 Embedded Systems	4	ME 468 Mechanical Engineering Design II (Capstone)	3
EG 044 Conference	0	EG 043 Conference (General Education Ethics)	0
ME 435 Mechanical Control Systems	3	General Education History/Literature/Arts & Humanities/Social Science (http://catalog.norwich.edu/residentialprogramscatalog/generaleducationgoals)	3
ME 465 Heat Transfer	3	Mechanical Engineering (ME) Elective ³	3
ME 467 Mechanical Engineering Design I (Capstone)	3	General Education Elective (http://catalog.norwich.edu/residentialprogramscatalog/generaleducationgoals) ²	3
ME 487 Mechanical Engineering Laboratory III	2	Math or Science or Engineering Elective ¹	3
General Education History/Literature/Arts & Humanities/Social Science (http://catalog.norwich.edu/residentialprogramscatalog/generaleducationgoals)	3		
Semester Total Credits	18	Semester Total Credits	15
Total Credits For This Major: 130			

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).

- 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.

Two different ME 490 courses covering different topics can be used to satisfy the ME elective and the Math/Science/Engineering elective.

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.
- A fifth General Education Elective is required, choose from History, Literature, Arts & Humanities or Social Science General Education courses.
- Two different ME 490 courses covering different topics can be used to satisfy the ME elective and the Math/Science/Engineering elective.