

State University of New York at New Paltz

This **eight-semester plan** (see [important details](#)) is intended to guide a first-year student through a four-year undergraduate career, with completion of an academic major and all college-wide degree requirements. The plan is designed as an **advising tool** – a starting point for careful discussions between a student and his/her academic adviser. In consultation, the student and adviser will adjust the plan to accommodate the student’s prerequisite needs, transferred credits, and other such variables.

Students are responsible for reviewing their [Progress Reports](#) each semester to track their own progress toward degree requirements.

Mechanical Engineering

Year 1

Fall Semester		Spring Semester	
Course	Credits	Course	Credits
MAT251 Calculus I (MATH)	4	MAT252 Calculus II	4
CHE201 General Chemistry I (NSCI)	3	PHY201 General Physics 1 (NSCI)	3
CHE211 General Chemistry I Lab	1	PHY211 Physics 1 Laboratory	1
EGG101 Introduction to Engineering Science	3	EGM221 Engineering Materials	3
Gen Ed: Composition (COMP)	3	Gen Ed: Composition (COMP)	3
Gen Ed: Humanities (HUM)	3	ARS170 Intro to Sculpture (ART) or Gen Ed: ART	3
Total	17	Total	17

Year 2

Fall Semester		Spring Semester	
Course	Credits	Course	Credits
MAT353 Calculus III	4	MAT362 Linear Algebra	3
MAT359 Ordinary Differential Equations	3	EGM201 Design Using Reverse Engineering	1
PHY202 General Physics 2 (NSCI)	3	EGM212 Dynamics	3
PHY212 General Physics 2 Lab	1	EGE200 Circuit Analysis	3
EGM211 Statics	3	EGE201 Circuits Laboratory	1
Gen Ed: World Civilizations and Cultures (WRLD)	3	EGE331 Computer Simulation	3
EGM101 Design With Additive Manufacturing	1	Gen Ed: United States Studies (USST)	3
Total	18	Total	17

Year 3

Fall Semester		Spring Semester	
Course	Credits	Course	Credits
EGM322 Mechanics of Materials	3	EGM301 Design of Measurement Instrumentation	1
EGM323 Materials Lab	1	EGM312 System Dynamics	3
EGM331 Thermodynamics	3	EGM335 Thermo System Design	3
MAT380 Applied Probability and Statistics	3	EGM332 Fluid Mechanics	3
EGM311 Kinematics of Machines	3	EGM333 Thermo-Fluids Lab	1
Gen Ed: Western Civilization (WEST)	3	Professional elective (see adviser for list)	3
Total	16	Gen Ed: Social Sciences (SSCI)	3
		Total	17

Year 4

Fall Semester		Spring Semester	
Course	Credits	Course	Credits
EGE408 Senior Design Project I (WI)	3	EGE409 Senior Design Project II (WI)	3
EGM302 Finite Element Analysis	3	Professional elective (see adviser for list)	3
EGM334 Heat Transfer	3	Professional elective (see adviser for list)	3
Professional elective (see adviser for list)	3	Professional elective (see adviser for list)	3
Total	12	Total	12

Total Credits: 126