

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.

Computer Engineering

Year 1

Fall Semester		Spring Semester	
Course	Credits	Course	Credits
MAT251 Calculus I (MATH)	4	MAT252 Calculus II	4
CHE201 /211 Gen Chem I/Lab OR BIO201 /211 Gen Bio I/Lab	4	PHY201 General Physics 1 (NSCI)	3
EGG101 Introduction to Engineering Science	3	PHY211 Physics 1 Laboratory	1
Gen Ed: Composition I (COMP)	3	EGC251 C/C++ Programming	3
Gen Ed: Humanities (HUM)	3	Gen Ed: Composition II (COMP)	3
Total	17	Gen Ed: Social Sciences (SSCI)	3
		Total	17

Year 2

Fall Semester		Spring Semester	
Course	Credits	Course	Credits
MAT359 Ordinary Differential Equations	3	MAT362 Linear Algebra	3
PHY202 General Physics 2 (NSCI)	3	CPS310 Computer Science II: Data Structures	4
PHY212 General Physics 2 Lab	1	EGE200 Circuit Analysis	3
CPS210 Computer Science I: Foundations	4	EGE201 Circuits Laboratory	1
EGC220 Digital Logic Fundamentals	3	EGG321 Technical Communication	3
EGC221 Digital Logic Lab	1	Gen Ed: United States Studies (USST)	3
Total	15	Total	17

Year 3

Fall Semester		Spring Semester	
Course	Credits	Course	Credits
MAT320 Discrete Mathematics for Computing	3	CPS353 Software Engineering	3
EGC331 Microcontroller System Design	3	MAT380 Applied Probability and Statistics	3
EGC332 Microcontroller Laboratory	1	EGC433 Embedded Systems	3
EGC320 Digital Systems Design	3	EGC442 Introduction to Computer Architecture	3
EGE320 Electronics I	3	EGC445 VLSI Design	3
EGE322 Electronics I Laboratory	1	EGC446 VLSI Design Lab	1
Total	14	Total	16

Year 4

Fall Semester		Spring Semester	
Course	Credits	Course	Credits
EGC451 Real-Time Systems	3	Technical Elective	3
EGC455 System-on-Chip (SoC)	3	Technical Elective	3
EGC447 Functional Verification of Hardware Systems	3	EGG409 Senior Design Project 2 (WI)	3
Gen Ed: The Arts (ART)	3	Gen Ed: World Civilizations and Cultures (WRLD)	3
EGG408 Senior Design Project 1 (WI)	3	Gen Ed: Western Civilization (WEST)	3
Total	15	Total	15

Total Credits: 126