

MAJOR IN COMPUTER ENGINEERING

- Students may not enroll in any engineering course unless all prerequisites have been met with a grade of C- or better.
- Students are required to receive grades of C- or better in any course that is used to satisfy engineering major requirements. Except for Fieldwork (EGC494/EGE494/EGM494), courses taken on a Satisfactory/Unsatisfactory basis cannot be applied toward engineering major requirements.

Code	Title	Credits
Modified General Education Requirement (24 Credits)		
Select one of the following:		6
ENG160	and	
& ENG180		
ENG205	and	
& ENG206		
Select one course from each of the following categories:		18
United States Studies (USST)		
World Civilizations and Cultures (WRLD)		
Western Civilization (WEST)		
Humanities (HUM)		
Social Sciences (SSCI)		
The Arts (ART)		
Math and Science Foundation Courses (40 Credits)		
Mathematics:		
MAT251		4
MAT252		4
MAT320		3
MAT359		3
MAT362		3
Computer Science:		
CPS210		4
CPS310		4
CPS353		3
Physics:		
PHY201	and	4
& PHY211		
PHY202	and	4
& PHY212		
Chemistry or Biology:		
Select one of the following:		4
CHE201	and	
& CHE211		
BIO201	and	
& BIO211		
Core Engineering Courses (56 Credits)		
EGG101		3
EGC251		3
EGC220		3
EGC221		1
EGE200		3

EGE201		1
EGC331		3
EGC332		1
EGC320		3
EGE320		3
EGE322		1
EGG311		3
EGC433		3
EGC442		3
EGC445		3
EGC446		1
EGC451		3
EGC455		3
EGC447		3
EGG321		3
EGE408	1	3
EGE409	1	3
Technical Electives (6 Credits)		
Select six credits of technical electives ²		6
Total Credits		126

¹ Seniors must register for Senior Design Project (EGE408 and EGE409) during each of the last two semesters preceding their graduation. A single project under the direction of a single faculty member will be spread over the two semesters. This project should provide a meaningful engineering design experience and should draw on the student's cumulative technical background.

² Six credits of technical electives are required, which must include at least one upper-division electrical (EGE), computer (EGC), and/or mechanical (EGM) engineering lecture course. Technical electives can also include certain upper-division computer science, physics, and math courses. Students must obtain the approval of their adviser prior to registering for the courses. Pre-approved engineering graduate courses can be used as undergraduate technical electives.

This **eight-semester plan** (see important details (<http://catalog.newpaltz.edu/undergraduate/additional-information-about-8-semester-plans>)) 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 (<https://www3.newpaltz.edu/progressreports>) each semester to track their own progress toward degree requirements.

Course	Title	Credits
Year 1		
Fall		
MAT251		4
CHE201/211	Gen Chem I/Lab OR BIO201/211 Gen Bio I/Lab	4
EGG101		3
Gen Ed: Composition I (COMP)		3

Gen Ed: Humanities (HUM)	3
Credits	17
Spring	
MAT252	4
PHY201 NSCI	3
PHY211	1
EGC251	3
Gen Ed: Composition II (COMP)	3
Gen Ed: Social Sciences (SSCI)	3
Credits	17

Year 2

Fall	
MAT359	3
PHY202 NSCI	3
PHY212	1
CPS210	4
EGC230	3
EGC208	1
Credits	15

Spring	
MAT362	3
CPS310	4
EGE200	3
EGE201	1
Gen Ed: The Arts (ART)	3
Gen Ed: United States Studies (USST)	3
Credits	17

Year 3

Fall	
MAT320	3
EGC331	3
EGC332	1
EGC450	3
EGE320	3
EGE322	1
Credits	14

Spring	
CPS353	3
EGG311	3
EGC433	3
EGC442	3
EGC445	3
EGC446	1
Credits	16

Year 4

Fall	
EGC451	3
EGC455	3
EGC447	3
EGG321	3
EGE408	3
Credits	15

Spring	
Technical Elective	3
Technical Elective	3
EGE409	3
Gen Ed: World Civilizations and Cultures (WRLD)	3
Gen Ed: Western Civilization (WEST)	3
Credits	15
Total Credits	126