

# MAJOR IN COMPUTER SCIENCE

Code	Title	Credits
<b>Required Computer Science Courses (40 Credits)</b>		
CPS210		4
CPS310		4
CPS315		4
CPS330		4
CPS340		4
CPS352		3
CPS353		3
CPS415		3
CPS425		4
Select one of the following capstone pairs:		7
CPS440	and	
& CPS441		
CPS470	and	
& CPS471		
<b>Required Mathematics Courses (11 Credits)</b>		
MAT251		4
MAT252		4
MAT320		3
<b>Required Science Courses (8 Credits)</b>		
Select one of the following groups:		8
Group A:		
CHE201		
CHE211		
CHE202		
CHE212		
Group B:		
PHY201		
PHY211		
PHY202		
PHY212		
Group C:		
BIO201		
BIO211		
BIO202		
BIO212		
Group D:		
GLG201		
GLG211		
Select one 4 credit Geology course with Physical Geology as a prerequisite		
<b>Required Engineering Courses (4 Credits)</b>		
EGC220		3
EGC221		1
Total Credits		63

This **eight-semester plan** (see important details ([http://catalog.newpaltz.edu/undergraduate/additional-information-about-8-](http://catalog.newpaltz.edu/undergraduate/additional-information-about-8-semester-plans)

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
<b>Year 1</b>		
<b>Fall</b>		
Gen Ed: Composition (COMP)		3
CPS210		4
MAT251	1	4
Gen Ed: Foreign Languages (FLNG)		3
Credits		14
<b>Spring</b>		
Gen Ed: Composition (COMP)		3
MAT252	1	4
Gen Ed: Foreign Languages (FLNG)		3
CPS310		4
Credits		14
<b>Year 2</b>		
<b>Fall</b>		
CHE201	or	3
or PHY201		
CHE211	or	1
or PHY211		
Gen Ed: United States Studies (USST)		3-4
CPS315		4
CPS330		4
Credits		15-16
<b>Spring</b>		
CHE202	or	3
or PHY202		
CHE212	or	1
or PHY212		
Gen Ed: Humanities (HUM)		3
Gen Ed: Social Sciences (SSCI)		3
MAT320		3
CPS353		3
Credits		16
<b>Year 3</b>		
<b>Fall</b>		
EGC230		3
EGC208		1
CPS340		4
CPS352		3
CPS425		4
Credits		15

**Spring**

Gen Ed: World Civilizations and Cultures (WRLD)	3
Gen Ed: The Arts (ART)	3
Gen Ed: Western Civilization (WEST)	3
Gen Ed: Diversity (DIVR)	3
CPS415	3
Credits	15

**Year 4****Fall**

Capstone elective	3
Computer Science elective (upper division)	3
Computer Science elective (upper division)	3
Elective	3
Elective (WI)	3
Credits	15

**Spring**

Capstone project	4
Computer Science elective	3
Electives	9
Credits	16
Total Credits	120-121

<sup>1</sup> Students who are prepared for Calculus I when they arrive at New Paltz are deemed to have met their GE Math requirement. Students who are not "Calculus ready" upon arrival will take MAT181 Precalculus in Year 1-Semester 1, then proceed with Calculus 1 (MAT251) and Calculus 2 (MAT252) in Year 1-Semester 2 and Year 2-Semester 1, respectively.