

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 Science

Year 1

Fall Semester		Spring Semester	
Course	Credits	Course	Credits
Gen Ed: Composition (COMP)	3	Gen Ed: Composition (COMP)	3
CPS210 Computer Science I: Foundations	4	MAT252 Calculus II (see Note 1)	4
MAT251 Calculus I (see Note 1, below)	4	Gen Ed: Foreign Languages (FLNG)	3
Gen Ed: Foreign Languages (FLNG)	3	CPS310 Computer Science II: Data Structures	4
Total	14	Total	14

Year 2

Fall Semester		Spring Semester	
Course	Credits	Course	Credits
CHE201 General Chemistry I or PHY201 General Physics I (NSCI)	3	CHE202 General Chemistry II or PHY202 General Physics II (NSCI)	3
CHE211 General Chemistry I Lab or PHY211 Physics I Lab	1	CHE212 General Chemistry II Lab or PHY212 General Physics II Lab	1
Gen Ed: United States Studies (USST)	3-4	Gen Ed: Humanities (HUM)	3
CPS315 Computer Science III	4	Gen Ed: Social Sciences (SSCI)	3
CPS330 Assembly Language and Computer Architecture	4	MAT320 Discrete Mathematics for Computing	3
Total	15-16	CPS353 Software Engineering	3
		Total	16

Year 3

Fall Semester		Spring Semester	
Course	Credits	Course	Credits
EGC220 Digital Logic Fundamentals	3	Gen Ed: World Civilizations and Cultures (WRLD)	3
EGC221 Digital Logic Lab	1	Gen Ed: The Arts (ART)	3
CPS340 Operating Systems	4	Gen Ed: Western Civilization (WEST)	3
CPS352 Object Oriented Programming	3	CPS425 Language Processing	4
Gen Ed: Diversity (DIVR)	3	CPS415 Discrete and Continuous Computer Algorithms	3
Total	14	Total	16

Year 4

Fall Semester		Spring Semester	
Course	Credits	Course	Credits
Capstone elective	3		
Upper-division Computer Science elective	3	CPS485 Projects	4
Upper-division Computer Science elective	3	Upper-division Computer Science elective	3
Elective	3	Electives	9
Elective (WI)	3	Total	16
Total	15		

Notes

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.

Total Credits: 120-121