

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.

Physics

Year 1

Fall Semester		Spring Semester	
Course	Credits	Course	Credits
Gen Ed: Composition (COMP)	3	Gen Ed: Composition (COMP)	3
MAT251 Calculus I (MATH)	4	MAT252 Calculus II	4
CHE201 General Chemistry I (NSCI)	3	CHE202 General Chemistry II (NSCI)	3
CHE211 General Chemistry I Lab	1	CHE212 General Chemistry II Lab	1
Gen Ed: Humanities (HUM)	3	PHY201 General Physics 1 (NSCI)	3
Total	14	PHY211 Physics 1 Laboratory	1
		Total	15

Year 2

Fall Semester		Spring Semester	
Course	Credits	Course	Credits
MAT341 Applied Mathematics I	3	MAT342 Applied Mathematics II	3
MAT353 Calculus III	4	PHY306 Mechanics I (see Note 1)	3
PHY202 General Physics 2 (NSCI)	3	PHY308 Modern Physics I (see Note 1)	3
PHY212 General Physics 2 Lab	1	PHY310 Modern Physics Laboratory	1
Gen Ed: Foreign Languages (FLNG)	3	Gen Ed: Foreign Languages (FLNG)	3
Total	14	Gen Ed: Diversity (DIVR)	3
		Total	16

Year 3

Fall Semester		Spring Semester	
Course	Credits	Course	Credits
PHY307 Mechanics 2	3	PHY322 Optics	3
PHY331 Quantum Physics	3	PHY309 Modern Physics II	3
CPS210 Computer Science I (see Note 2)	4	Gen Ed: Foreign Languages (FLNG)	3
Gen Ed: Social Sciences (SSCI)	3	Gen Ed: Western Civilization (WEST)	3
Gen Ed: United States Studies (USST)	3	Gen Ed: The Arts (ART)	3
Total	16	Total	15

Year 4

Fall Semester		Spring Semester	
Course	Credits	Course	Credits
PHY305 Computational Physics	3	PHY491	3-6
PHY313 Electricity & Magnetism (see Note 3)	3	PHY422 Thermal Physics	3
Gen Ed: World Civilizations and Cultures (WRLD)	3	Elective	4
Gen Ed: Writing Intensive (WI)	3	Elective	3
Elective	3	Elective	3
Total	15	Total	16-19

Notes

[PHY306](#) Mechanics I and [PHY308](#) Modern Physics I are offered only in the spring.

[CPS210](#) Computer Science I is suggested for students who have no programming experience.

[PHY313](#) Electricity & Magnetism is offered every third semester.

Total Credits: 121-124