



Curricular Plan Computational Physics BS



A curricular plan provides a roadmap for completing this academic program and the UB Curriculum in four years. Your actual plan may vary depending on point of entry to the university, course placement and/or waivers based on standardized test scores, earned alternative credit and/or college transfer credit.

All students are encouraged to use this plan in conjunction with other academic planning resources such as your academic advisor, the HUB Academic Advisement Report, My Planner and Path Finder tool.

In addition to following this course roadmap, all other admission and academic requirements of this major as listed in the Undergraduate Catalog must be met in order to successfully complete this degree.

Freshman Year – Fall Semester		
Course	Category	Credit
UB Seminar	UBS	3
CSE 115	M	4
MTH 141	M/MQR	4
PHY 107 or PHY 117	M/SLI 1	4
<i>Total Credits:</i>		15

Freshman Year – Spring Semester		
Course	Category	Credit
CSE 116	M	4
MTH 142	M	4
PHY 108 or PHY 118	M/SLI 2	4
PHY 158	M/SLI 2	1
ENG 105	CL 1	4
<i>Total Credits:</i>		17

Sophomore Year – Fall Semester		
Course	Category	Credit
CSE/MTH 191	M	4
MTH 241	M	4
MTH 306	M	4
PHY 208	M	3
Pathway and Diversity Learning	P/DL*	3
<i>Total Credits:</i>		18

Sophomore Year – Spring Semester		
Course	Category	Credit
CSE 250	M	4
PHY 207	M	4
PHY 257	M	1
Pathway	P	3
Pathway	P	3
Pathway	P	3
<i>Total Credits:</i>		18

Junior Year – Fall Semester		
Course	Category	Credit
CSE 442	M	4
PHY 301	M	3
PHY 401	M	3
Communication Literacy	CL 2	3
<i>Total Credits:</i>		13

Junior Year – Spring Semester		
Course	Category	Credit
MTH 309	M	4
PHY 307	M	2
CSE 305	M	4
Pathway	P	3
<i>Total Credits:</i>		13

Senior Year – Fall Semester		
Course	Category	Credit
PHY410 or CSE/MTH 437	M	3
PHY 405	M	3
UBC 399	CAP	1
PHY 403	M	3
Pathway	P	3
<i>Total Credits:</i>		13

Senior Year – Spring Semester		
Course	Category	Credit
PHY 411 or CSE/MTH 438	M	3
PHY 408 (or 407 fall)	M	3
Elect (Prob/Stat w Calc)	M	3
Elective	E	4
<i>Total Credits:</i>		13

Total Credits Required for Degree:	120
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**Approved Diversity Learning course if not met through approved major, elective, or UBC course.*

Category Legend:

M = Course Required for Major (including pre-requisites needed for admission to the major)

E = Elective (course not required for major or UB Curriculum)

The following are all components of the UB Curriculum (UBC) For more information on the UBC and course options visit: <https://catalog.buffalo.edu/policies/ubcurriculum.html>

- UBS = UB Seminar
- CL1/CL 2 = Communication Literacy (2 required)
- CAP = UB Capstone
- DL = Diversity Learning
- MQR = Math and Quantitative Reasoning
- P = Pathway Course (6 required: 3 Global, 3 Thematic)
- SLI1/SLI2 = Scientific Literacy and Inquiry (2 required)

Note: Some classes may count toward both a major (M) and UB Curriculum (UBC) requirement. Courses that count towards more than one requirement are indicated by a "/" (slash) in the category column indicating which categories the course will satisfy.