



Curricular Plan Bioinformatics - Computer Science



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
CHE 101	M/SLI 1	5
MTH 141	M/MQR	4
Pathway or ENG 105	P or CL 1	3 or 4
<i>Total Credits:</i>		15 or 16

Freshman Year – Spring Semester		
Course	Category	Credit
CHE 102	M	5
CSE 115	M	4
MTH 142	M	4
Pathway or ENG 105	P or CL 1	3 or 4
<i>Total Credits:</i>		16 or 17

Sophomore Year – Fall Semester		
Course	Category	Credit
CHE 201 or 203	M	3
CSE 191/MTH 191	M	4
CSE 116	M	4
MTH 241	M	4
Pathway and Diversity Learning	P/DL*	3
<i>Total Credits:</i>		18

Sophomore Year – Spring Semester		
Course	Category	Credit
BIO 205	M	3
CSE 250	M	4
Pathway	P	3
Pathway	P	3
<i>Total Credits:</i>		13

Junior Year – Fall Semester		
Course	Category	Credit
CSE 442	M	3
CSE 462	M	3
MTH 309	M	4
EAS 360 or Equivalent	CL 2	3
CSE 241	M	4
<i>Total Credits:</i>		17

Junior Year – Spring Semester		
Course	Category	Credit
CSE 305	M	4
CSE 421	M	3
MTH 306	M	3
CSE 341	M	4
<i>Total Credits:</i>		14

Senior Year – Fall Semester		
Course	Category	Credit
BIO 302 or BIO 319	M	3
MTH 411 or STA 301	M	3
Pathway	P	3
Pathway	P	3
<i>Total Credits:</i>		12

Senior Year – Spring Semester		
Course	Category	Credit
BIO 400	M/SLI 2	4
CSE 396	M	4
CSE 337 or MTH 337 or CSE 437 or MTH 437	M	4
Senior Project	M	2
UBC 399	CAP	1
<i>Total Credits:</i>		15

Total Credits Required for Degree:	121
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**Approved Diversity Learning course if not already completed 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.