



## Finish in 4 Curricular Plan BS Bioinf. and Comput. Bio. (CSE Concentr.)



A Finish in 4 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
Thematic Pathway	TP I	3
<i>Total Credits:</i>		15

Freshman Year – Spring Semester		
Course	Category	Credit
CHE 102	M	5
CSE 115	M	4
MTH 142	M	4
ENG 105	CL1	4
<i>Total Credits:</i>		17

Course	Category	Credit
CHE 201 or 203	M	3
CSE 191/MTH 191	M	4
CSE 116	M	4
MTH 241	M	4
Global Pathway	GP1	3
<i>Total Credits:</i>		18

Course	Category	Credit
BIO 205	M	3
CSE 250	M	4
Thematic Pathway	TP2	3
Global Pathway	GP2	3
<i>Total Credits:</i>		13

Course	Category	Credit
CSE 442	M	3
CSE 462	M	3
MTH 309	M	4
EAS 360 or Equivalent	CL2	3
CSE 241	M	4
<i>Total Credits:</i>		17

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

Course	Category	Credit
BIO 302 or BIO 319	M	3
MTH 411 or STA 301	M	3
CSE Elective	GP3	3
CSE Elective	TP 3	3
UBC 399	CAP	1
<i>Total Credits:</i>		13

Course	Category	Credit
BIO 400/SLI II	M/SLI II	4
CSE 396	M	4
CSE 337 or MTH 337 or CSE 437 or MTH 437	M	4
Senior Project	M	2
<i>Total Credits:</i>		14

<b>Total Credits Required for Degree:</b>		
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121
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**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: <list url of Catalog UBC page>**

- UBS = UB Seminar
- CL1/CL 2 = Communication Literacy (2 required)
- CAP = UB Capstone
- DL = Diversity Learning
- GP1/GP2/GP3 = Global Pathway Course (3 required)
- MQR = Math and Quantitative Reasoning
- SLI1/SLI2 = Scientific Literacy and Inquiry (2 required)
- TP1/TP2/TP3 = Thematic Pathway Course (3 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.

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Major	92
Gen Ed	29
Total	121



