



## Curricular Plan



## Mathematics BA Computing and Applied Mathematics Concentration

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
MTH 141	M/MQR	4
CSE 115	M	4
Pathway or ENG 105	P or CL 1	3 or 4
<i>Total Credits:</i> 14 or 15		

Freshman Year – Spring Semester		
Course	Category	Credit
MTH 142	M	4
CSE 116	M	4
Pathway	P	3
Pathway or ENG 105	P or CL 1	3 or 4
<i>Total Credits:</i> 14 or 15		

Sophomore Year – Fall Semester		
Course	Category	Credit
MTH 241	M	4
CSE 241	M	4
CSE 191	M	4
Scientific Literacy	SLI 1	3
<i>Total Credits:</i> 15		

Sophomore Year – Spring Semester		
Course	Category	Credit
MTH 309	M	4
CSE 250	M	4
Pathway	P	3
Pathway	P	3
Scientific Literacy	SLI 2	3
<i>Total Credits:</i> 17		

Junior Year – Fall Semester		
Course	Category	Credit
MTH 306	M	4
MTH 417 or MTH 431	M	4
Communication Literacy	CL 2	3
Diversity Learning	DL*	3
Pathway	P	3
<i>Total Credits:</i>		17

Junior Year – Spring Semester		
Course	Category	Credit
MTH 418 or MTH 432	M	4
MTH 300/400 Elective	M	3
Pathway	P	3
UBC 399	CAP	1
Elective	E	3
<i>Total Credits:</i>		14

Senior Year – Fall Semester		
Course	Category	Credit
MTH 437	M	4
MTH or CSE 300/400 Elective	M	3
MTH 300/400 Elective	M	3
Elective	E	3
Elective	E	2
<i>Total Credits:</i>		15

Senior Year – Spring Semester		
Course	Category	Credit
MTH 438	M	4
MTH or CSE 300/400 Elective	M	3
Elective	E	3
Elective	E	3
<i>Total Credits:</i>		13

<b>Total Credits Required for Degree:</b>	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.