



Curricular Plan

BS Computer Science/MS Computer Science and Engineering

The plan below provides a roadmap for completing this academic program and the UB Curriculum within five 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 per the Undergraduate Catalog) must be met in order to successfully complete this degree.

First Year – Fall Semester		
Course	Category	Credit
CSE 199 or Equivalent	M/UBS	3
CSE 115	M	4
MTH 141	M/MQR	4
ENG 105	CL1	4
<i>Total Credits:</i>		15
Second Year – Fall Semester		
Course	Category	Credit
CSE 241	M	4
CSE 250	M	4
Scientific Literacy 1	SLI 1	4
Global Pathway	GP1	3
<i>Total Credits:</i>		15

First Year – Spring Semester		
Course	Category	Credit
CSE 116	M	4
CSE 191	M	4
MTH 142	M	4
Thematic Pathway	TP1	3
<i>Total Credits:</i>		15
Second Year – Spring Semester		
Course	Category	Credit
CSE 341	M/TP3	4
Probability/Statistics	M	3
Thematic Pathway	TP2/DL	3
Global Pathway	GP2	3
Scientific Literacy 2	SLI 2	3
<i>Total Credits:</i>		16

Third Year – Fall Semester		
<i>Course</i>	<i>Category</i>	<i>Credit</i>
CSE 331	M	4
Math Elective	M	4
EAS 360 or Equivalent	M/CL2	3
Free Elective	E	3
<i>Total Credits:</i>		14

Third Year – Spring Semester		
<i>Course</i>	<i>Category</i>	<i>Credit</i>
CSE 521	M	3
CSE 396	M	4
Free Elective	E	3
Math or Science Elective	M	4
<i>Total Credits:</i>		14

Fourth Year – Fall Semester		
<i>Course</i>	<i>Category</i>	<i>Credit</i>
CSE 442	M/GP3	3
CSE 505	M	3
CSE 5xx (Core 1 area)	M	3
CSE 5xx (Core 2 area)	M	3
Free Elective	E	2
UBC 399	CAP	1
<i>Total Credits:</i>		15

Fourth Year – Spring Semester		
<i>Course</i>	<i>Category</i>	<i>Credit</i>
CSE 5xx (Core 1/Core 2/Core 3/ SW area)	M	3
CSE 6xx (same area as above)	M	3
Free Elective	E	4
Free Elective	E	3
<i>Total Credits:</i>		13

Fifth Year – Fall Semester		
<i>Course</i>	<i>Category</i>	<i>Credit</i>
CSE 5xx Elective	M	3
CSE 5xx (Core 3 area)	M	3
Free Elective	E	4
<i>Total Credits:</i>		10

Fifth Year – Spring Semester		
<i>Course</i>	<i>Category</i>	<i>Credit</i>
CSE 6xx Elective	M	3
CSE 7xx seminar	M	3
<i>Total Credits:</i>		6

Total Credits Required for Degree:	133
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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: <http://undergrad-catalog.buffalo.edu/policies/degree/ubcurriculum.html>

- 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.

