

Bachelor of Science with Major in Mathematics
General Option
(For Students entering in Fall 2010)

Freshman Year / Fall Semester	Cr.	Freshman Year / Spring Semester	Cr.
___ 92.131 Calculus I	4	___ 92.132 Calculus II	4
___ . ___ Free Elective	3	___ 92.321 Discrete Structures I	3
___ . ___ Science	3	___ . ___ Science	3
___ . ___ Science Lab	1	___ . ___ Science Lab	1
___ 42.101 (Gen Ed) College Writing I	<u>3</u>	___ 42.102 (Gen Ed) College Writing II	<u>3</u>
	14		14
Sophomore Year / Fall Semester	Cr.	Sophomore Year / Spring Semester	Cr.
___ 92.231 Calculus III	4	___ 92.23 Differential Equations (234 or 236)	3
___ 92.221 Linear Algebra I	3	___ 92.222 Linear Algebra II	3
___ . ___ Science	3	___ . ___ Science	3
___ . ___ Science Lab	1	___ . ___ Science Lab	1
___ 42. ___ Writing Requirement	<u>3</u>	___ . ___ (Gen Ed) AH	3
	14	___ . ___ (Gen Ed) SS	<u>3</u>
			16
Junior Year / Fall Semester	Cr.	Junior Year / Spring Semester	Cr.
___ 92. ___ Basic Analysis Elective	3	___ 92. ___ Analysis Elective	3
___ 92. ___ Prob/Statistics Elective	3	___ 92.3 ___ Math Elective	3
___ . ___ (Gen Ed) AH	3	___ 92.375 Senior Seminar I	1
___ . ___ (Gen Ed) SS	3	___ . ___ (Gen Ed) SS	3
___ . ___ Computing Requirement	<u>3(4)</u>	___ . ___ Science Elective	3
	15(16)	___ . ___ (Gen Ed) AH	<u>3</u>
			16
Senior Year / Fall Semester	Cr.	Senior Year / Spring Semester	Cr.
___ 92.3 ___ Math Elective	3	___ 92. ___ Math Elective	3
___ . ___ Science Elective	3	___ . ___ Science Elective	3
___ 92.475 Senior Seminar II	3	___ . ___ Science Elective	3
___ . ___ Free Elective	3	___ . ___ Free Elective	3
___ . ___ Free Elective	<u>3</u>	___ . ___ Free Elective	<u>3</u>
	15		15

Minimum total credits for graduation = 120

Consult the Gen. Ed. web site <http://www.uml.edu/gened> for regarding General Education (Gen. Ed.) requirements.

Course selections are subject to restrictions. See reverse side for additional information.

Bachelor of Science with Major in Mathematics: No Concentration**Mathematics Requirements (92.xxx)**

Calculus:	131,132 and 231
Linear Algebra:	221 and 222
Differential Equations:	one of 234, 236
Discrete Structures:	321 or 322
Analysis I:	one of 305,411,501,503
Analysis II:	One of 301, 305, 306, 411, 412, 413, 420, 421, 442, 450
Probability & Statistics:	One of 385, 386, 486
Senior Seminar:	375 and 475
Math Electives:	Three mathematics courses at the 300 level or higher (except 363)

Note: None of the above courses can be used to satisfy two different requirements.
305 and 503 cannot both be used to satisfy the two-courses Analysis requirement.

The following courses cannot be used as Electives:

Quantitative Reasoning 111; Management Precalculus 121; Management Calculus 122 Preparation for Calculus 127; Explorations in Math 151; Introduction to Statistics 283; Intro to Data Analysis 363.

No more than 60 Math credits can be counted toward the degree.

Computing Requirement: 91.101 (Computing I) or 92.576 (Statistical Programming Using SAS) or another computer programming class as approved by the Undergraduate Coordinator or Department Chair.

Writing Requirement: 42.229 (Essay Writing for Non-English Majors). If a student has completed other courses with substantial writing requirements, he/she can petition to have that work satisfy the mathematics writing requirement.

Students with a joint major in Computer Science should take 42.220 (Oral and Written Communication for CS Majors) rather than 42.229.

General Education Electives must include: At least 6 courses, 3 in Arts & Humanities (AH) and 3 in Social Sciences (SS); one course must satisfy the Diversity (D) requirement and one the Ethics (E) requirement.

No more than two courses from a single department can be used to satisfy these Gen Ed requirements.

Math/Science Gen ED requirements are fulfilled by the major's courses.

Mathematics Concentrations: In addition to the general Mathematics (No Concentration) Major, 6 concentrations are available to students:

Applied/Computational Mathematics	Computer Science
Bioinformatics	Probability/Statistics
Business Applications	Teaching

A total of 55 mathematics credits are required to complete a concentration.

If interested, a student should check requirements with his/her advisor or with the undergraduate coordinator.

To have the concentration appear on the transcript, the Registrar must be informed of a student's concentration.

Advice to Students: Any deviations from this sample program of study require permission of the Mathematics Department Chair or Undergraduate Coordinator. To receive written permission, use an Academic Petition form and keep a copy for your own files.

Bachelor of Science Requirements: A minimum of 74 credits and 20 courses from the Offerings of science and mathematics; four science lecture courses with co-requisite labs, including a two semester sequence in a department other than Mathematics—91.101(Computing I), 91.102 (Computing II), 92.231/232 (Calculus III & Math Lab I) and 92.236 (Engineering Diff.Eqns) qualify.