

# Bachelor of Science with Major in Mathematics No Concentration

## Sample Program of Study

Name \_\_\_\_\_

SID \_\_\_\_\_

Email \_\_\_\_\_

Year of Graduation \_\_\_\_\_

Telephone \_\_\_\_\_

Advisor \_\_\_\_\_

Freshman Year / Fall Semester	Cr.
___ 92.131 Calculus I	4
___ ._. Free Elective	3
___ ._. Science	3
___ ._. Science Lab	1
___ 42.101 (Gen Ed) College Writing I	<u>3</u>
	<b>14</b>

Freshman Year / Spring Semester	Cr.
___ 92.132 Calculus II	4
___ 92.321 Discrete Structures I	3
___ ._. Science	3
___ ._. Science Lab	1
___ 42.102 (Gen Ed) College Writing II	<u>3</u>
	<b>14</b>

Sophomore Year / Fall Semester	Cr.
___ 92.231 Calculus III	4
___ 92.221 Linear Algebra I	3
___ ._. Science	3
___ ._. Science Lab	1
___ 42.229 Writing Requirement	<u>3</u>
	<b>14</b>

Sophomore Year / Spring Semester	Cr.
___ 92.23_ Differential Equations	3
___ 92.222 Linear Algebra II	3
___ ._. Science	3
___ ._. Science Lab	1
___ ._. (Gen Ed) AH	3
___ ._. (Gen Ed) SS	<u>3</u>
	<b>16</b>

Junior Year / Fall Semester	Cr.
___ 92. ___ Analysis	3
___ 92. ___ Prob / Stat	3
___ ._. (Gen Ed) AH	3
___ ._. (Gen Ed) SS	3
___ ._. Computing Requirement	<u>3/4</u>
	<b>15/16</b>

Junior Year / Spring Semester	Cr.
___ 92.375 Senior Seminar I	1
___ 92. ___ Analysis	3
___ 92. ___ Math Elective	3
___ ._. (Gen Ed) AH	3
___ ._. (Gen Ed) SS	3
___ ._. Science Elective	<u>3</u>
	<b>16</b>

Senior Year / Fall Semester	Cr.
___ 92.475 Senior Seminar II	3
___ 92. ___ Math Elective	3
___ ._. Science Elective	3
___ ._. Free Elective	3
___ ._. Free Elective	<u>3</u>
	<b>15</b>

Senior Year / Spring Semester	Cr.
___ 92. ___ Math Elective	3
___ ._. Science Elective	3
___ ._. Science Elective	3
___ ._. Free Elective	3
___ ._. Free Elective	<u>3</u>
	<b>15</b>

Minimum Requirements: Credits Science = 74, Total = 120; GPA Math = 2.0, Overall = 2.0.

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## Mathematics Requirements (92.xxx)

Calculus:	131, 132 and 231
Linear Algebra:	221 and 222
Differential Equations:	One of 234, 236
Discrete Structures:	One of 321, 322
Analysis I:	One of 305, 411, 501, 503
Analysis II:	One of 301, 305, 306, 322, 362, 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)

Notes: None of the above courses can be used to satisfy two different requirements.  
305 and 503 cannot both be used to satisfy the two-course 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 towards the degree.

## Computing Requirement

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

## Writing Requirement

42.229 (Essay Writing for Non-English Majors). Student who have completed other courses with substantial writing components can petition to have that work satisfy the mathematics writing requirement.

## Bachelor of Science Requirements

A minimum of 74 credits and 20 courses from the offerings of science and mathematics.

Four science lecture courses with corequisite 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.

## General Education Requirements

College Writing:	42.101 and 42.102
Arts & Humanities (AH):	Three courses, not all from a single department
Social Sciences (SS):	Three courses, not all from a single department
Diversity (D):	One course
Ethics (E):	One course

Math/Science/Technology Gen ED requirements are fulfilled by previous requirements.

## Mathematics Concentrations

In addition to the general Mathematics (No Concentration) Major, six concentrations are available: Applied/Computational Mathematics, Bioinformatics, Business Applications, Computer Science, Probability/Statistics and Teaching. Interested students should check requirements with his/her advisor or with the undergraduate coordinator. To have a concentration appear on the transcript the Registrar must be notified.

## Note

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.

Last Modified: 6/14/2005