

College of Arts and Science
GRADUATION PLAN: Bachelor of Science in Mathematics

Name (Last, First)

Student Number

Date Form Filled

First College Semester Semester of Graduation Degree

Local Address (include email address)

Permanent Address

REQUIRED MATH COURSES

COURSE NO.	TITLE OF COURSE	CREDIT HOURS	
MATH 1500	Calculus I		
MATH 1700	Calculus II		
MATH 2300	Calculus III		
MATH 4100	Differential Equations		
MATH 4140	Matrix Theory		
MATH 4700	Advanced Calculus of One Real Variable I		
MATH 4720	Introduction to Abstract Algebra I		

MATH CAPSTONE COURSES: Choose either MATH 4970 (Senior Seminar) or MATH 4980 (Mathematics Problem Solving).

COURSE NO.	TITLE OF COURSE	CREDIT HOURS	

BASIC PROGRAMMING COURSES: Choose either CMP_SC 1040 (Introduction to Problem Solving and Programming) or CMP_SC 1050 (Algorithm Design and Programming I).

COURSE NO.	TITLE OF COURSE	CREDIT HOURS	

Choose either MATH 2320 (Discrete Mathematical Structures) or CMP_SC 2050 (Algorithm Design and Programming II).

COURSE NO.	TITLE OF COURSE	CREDIT HOURS	

4000 LEVEL MATH ELECTIVES

Choose three courses from the following list:

- MATH 4001: Topics, 3 hrs.
- MATH 4150: History of Mathematics, 3 hrs.
- MATH 4300: Numerical Analysis, 3 hrs.
- MATH 4310: Numerical Linear Algebra, 3 hrs.
- MATH 4315 (STAT 4710): Introduction to Mathematical Statistics, 3 hrs.
- MATH 4320 (STAT 4750): Introduction to Probability Theory, 3 hrs.
- MATH 4330: Theory of Numbers, 3 hrs.
- MATH 4335: College Geometry, 3 hrs.
- MATH 4345: Foundations of Geometry, 3 hrs.
- MATH 4350: Introduction to Non-Euclidean Geometry, 3 hrs.
- MATH 4355: Investment Science I, 3 hrs.
- MATH 4360: Actuarial Mathematics, 3 hrs.

- MATH 4400: Introduction to Topology, 3 hrs.
- MATH 4500: Applied Analysis, 3 hrs.
- MATH 4520 (STAT 4760): Statistical Inference, 3 hrs
- MATH 4540: Mathematical Modeling I, 3 hrs.
- MATH 4560: Nonlinear Dynamics, Chaos and Fractals, 3 hrs.
- MATH 4580: Mathematical Modeling II, 3 hrs.
- MATH 4590: Investment Science II, 3 hrs.
- MATH 4800: Advanced Calculus of One Real Variable II, 3 hrs.
- MATH 4900: Advanced Multivariable Calculus, 3 hrs.
- MATH 4920: Introduction to Abstract Linear Algebra, 3 hrs.
- MATH 4940: Introduction to Complex Variables, 3 hrs.
- MATH 4960: Special Readings, 3 hrs.
- MATH 4996: Honors in Mathematics, 2 hrs.

COURSE NO.	TITLE OF COURSE	CREDIT HOURS	

RELATED FIELD COURSES: A minimum of 13 hours from the following two groups (both groups must be represented).

Group 1: BIO_SC 1500 (General Biology), CHEM 1310 (General Chemistry I), CHEM 1320 (General Chemistry II), CHEM 1330 (General Chemistry III), PHYSICS 2750 (University Physics I) or PHYSICS 2760 (University Physics II).

DEPT.	COURSE NO.	TITLE OF COURSE	CREDIT HOURS	

Group 2: 4000 level courses in Statistics and Computer Science.

DEPT.	COURSE NO.	TITLE OF COURSE	CREDIT HOURS	

Total hours:

Student _____ Date _____

Advisor _____ Date _____

Director of Undergraduate Studies _____ Date _____

A&S Dean _____ Date _____

ARTS & SCIENCE FOUNDATION REQUIREMENTS
(List courses already completed and those to be completed)

BASIC SKILLS	TITLE OF COURSE	HOURS	TOTAL
English Composition	ENGL 1000 Exposition and Argumentation		

Foreign Language: 12-13 hours or comparable proficiency required

Chinese I, II (12 hrs) Greek I, II, III (13 hrs) Japanese I, II (12 hrs) Portuguese I, II (12 hrs)
 French I, II, III (13 hrs) Hebrew I, II, III, IV (12 hrs) Korean I, II, III (13 hrs) Russian I, II (12 hrs)
 German I, II, III (13 hrs) Italian I, II (12 hrs) Latin I, II, III (13 hrs) Spanish I, II, III (13 hrs)

FOREIGN LANGUAGE	TOTAL HOURS

Foreign Language Alternative: 12 hours of courses from one area outside of mathematics in the 2000, or above, level

DEPT.	COURSE #	TITLE OF COURSE	HOURS	TOTAL

DEPTH OF STUDY

6 hours must be courses numbered 2000, or above, and taken in at least two of the following Breadth of Study fields: Behavioral Science, Social Sciences, Humanities and Fine Arts

BREADTH OF STUDY

Biological, Physical, and Mathematical Sciences: See Related Field Courses for Department of Mathematics Requirements.

Behavioral and Social Sciences: 9 hours and must include courses from both the behavioral and social sciences.

DEPT.	COURSE #	TITLE OF COURSE	HOURS	TOTAL

Humanities and Fine Arts: At least 9 hours and must include courses from at least two different areas.

DEPT.	COURSE #	TITLE OF COURSE	HOURS	TOTAL

Total hours:

WARNING: additional hours are needed for graduation.

After printing this form, have it signed and dated by your advisor and the Director of Undergraduate Studies (Professor Ian Aberbach, 201 Mathematical Sciences Building, 882-4898) in the spaces on the previous page. You will then need to make two photocopies of the signed form and an appointment with an advisor in the Arts & Science Dean's Office (107 Lowry Hall, 882-6411) to turn in your completed area form.