

Suggested Four-Year Plan of Study

MATHEMATICS



Applied Mathematics

FRESHMAN YEAR

Fall Semester		16 Credits
FYE 10XX	First-Year Experience Seminar	3
ENGL 1100	Writing I.....	3
MATH 1300 OR	Precalculus OR	
MATH 2300	Calculus I (gen. ed. foundation – QR).....	4
CSC 1500 OR	Computer Science I OR	
Elective	Course in Minor	3
Gen. Ed.	(exploration)	3
Spring Semester		14 Credits
ENGL 1200	Writing II.....	3
Gen. Ed.	(foundation: WS)	3
MATH 1850	Freshmen Seminar in Mathematics	1
MATH 2300 OR	Calculus I OR	
MATH 2400	Calculus II	4
Gen. Ed. OR	(exploration) OR	
MATH 2550	Symbolic Computational Mathematics	3

JUNIOR YEAR

Fall Semester		15-16 Credits
MATH 2500	Intro to Mathematical Thought.....	3
MATH4400 OR	Operations Research OR	
MATH 4450	Math Modeling	3
PHYS 2400 OR	General Physics II OR	
PHYS 2700 OR	Calculus Based Physics II OR	
MATH 3003	Advanced Statistics	3-4
Elective	Course in Minor.....	3
Gen. Ed.	(exploration).....	3
Spring Semester		15 Credits
MATH 3500	Methods of Applied Math OR	
MATH 3550	Differential Equations	3
Free Elective OR	(if minor is computer science) OR	
CSC 1500	Computer Science I	3
Elective	Course in Minor.....	3
Elective	Course in Minor.....	3
Gen. Ed.	(exploration).....	3

General Education: Foundation

- 3 credits Reading and Information Literacy (R and IL): First Year Experience
- 3 credits Writing (W): Writing I
- 3 credits Writing and Information Literacy (W and IL): Writing II
- 3 credits Quantitative Reasoning (QR) (MATH)

Suggested 4-year plan of study. Completion of 120 credits required for graduation.

SOPHOMORE YEAR

Fall Semester		15-16 Credits
MATH 2400 OR	Calculus II OR	
Gen. Ed.	(exploration).....	3-4
MATH 2600	Linear Algebra.....	3
MATH XXXX	Math elective*	3
Elective	Course in Minor	3
Gen. Ed.	(exploration).....	3
Spring Semester		17 Credits
MATH 3350	Multivariate Calculus.....	4
MATH 2550 OR	Symbolic Computational Mathematics OR	
MATH XXXX	Math elective*	3
MATH 3500 OR	Methods of Applied Math OR	
MATH 3550	Differential Equations	3
PHYS 2300	General Physics I OR	
PHYS 2600	Calculus Based Physics I	4
Elective	Course in Minor	3

SENIOR YEAR

Fall Semester		15 Credits
MATH 4600	Senior Seminar in Applied Math	3
MATH XXXX	Math Elective*	3
Gen. Ed.	(exploration)	3
Gen. Ed.	(exploration)	3
Free Elective	3
Spring Semester		12-13 Credits
MATH XXXX	Math Elective*	3
Gen. Ed.	(exploration)	3
Free Elective	3
Free Elective	3
Free Elective	(as needed for credits).....	1

* At least two of these math electives must be at the 3000 level or above

General Education: Exploration

- 3 credits Civic Learning (CV)
- 3 credits Diverse Perspectives (DP)
- 3 credits Ethical Reasoning (ER)
- 3 credits Fine Arts Expression and Analysis (FA)
- 3 credits Historical Inquiry and Analysis (HI)
- 3 credits Literary Inquiry and Analysis (LI)
- 3 credits Personal Wellness (PW)
- 3 credits Procedural and Logical Thinking (PL)
- 3 credits Scientific Inquiry and Analysis (SI)

General Education: Integration

9 credits AIA (3 of which must be Integrative High Impact Practice - IHIP)
OR
Minor (professional majors completing a minor or second major must include at least 9 credits in LA&S disciplines for that minor)

General Education: MAJ

There may be major courses that have been approved to fulfill up to 3 General Education requirements (at least 9 credits). Varies by major and concentration.