

Applied Mathematics (B.A. or B.S.)

FRESHMAN YEAR

Fall Semester		16 Credits
FYE 10XX	First Year Experience (R/IL).....	3
ENGL 1100	Writing I (W).....	3
MATH 1300	Precalculus (QR) OR	
MATH 2300	Calculus I (QR).....	4
CSC 1500	Computer Science I OR	
	(Gen. Ed./ exploration).....	3
	(Gen. Ed./exploration).....	3
Spring Semester		16 Credits
ENGL 1200	Writing II (W/IL).....	3
SPCH 1000	Intro to Speech Communication OR	
SPCH 1100	Arg. and Debate (WS).....	3
MATH 1850	Freshman Seminar in Mathematics.....	3
MATH 2300	Calculus I OR	
MATH 2400	Precalculus.....	4
MATH 2550	Symbolic Comp. Mathematics OR	
	(Gen. Ed./exploration).....	3

SOPHOMORE YEAR

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

SENIOR YEAR

Fall Semester		15 or 16 Credits
MATH 2500	Intro. to Math Thought (PL).....	3
MATH 4400	Operations Research OR	
MATH 4450	Mathematical Modeling.....	3
PHYS 2400	General Physics II OR	
PHSY 2700	Calculus-based Physics II OR	
MATH 3003	Advanced Statistics.....	3 or 4
	Course in minor.....	3
	(Gen. Ed./exploration).....	3
Spring Semester		15 Credits
MATH 3500	Methods of Applied Math OR	
MATH 3550	Differential Equations.....	3
CSC 1500	Computer Science I OR	
	Free Elective.....	3
	Course in minor.....	3
	Course in minor.....	3
	(Gen. Ed./exploration).....	3

Fall Semester		15 Credits
MATH 4600	Senior Seminar in Mathematics.....	3
MATH XXXX	Math Elective*.....	3
	(Gen. Ed./exploration).....	3
	(Gen. Ed./exploration).....	3
	Free Elective.....	3
Spring Semester		12 Credits
MATH XXXX	Math Elective*.....	3
	Free Elective.....	3
	Free Elective.....	3
	Free Elective.....	3

* At least two of these must be at the 3000 level

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

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)
- 3 credits World Languages, Speaking and Listening (WS)

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.