

ACADEMIC ROADMAP
B.S. in Applied Mathematics

Freshman Year

FIRST SEMESTER		
Course Title	Catalog Number	Prerequisite(s)
Calculus I (4)	MAT161	MAT 124
Using Technology to Explore Calculus I (1)	MAT163	
Intellectual Foundations (IF) course(s)		
College Writing I	CWP 101	

SECOND SEMESTER		
Course Title	Catalog Number	Prerequisite(s)
Calculus II (4)	MAT162	MAT 161
Using Technology to Explore Calculus II (1)	MAT164	MAT 163
IF course(s)		
College Writing II	CWP 102	

Notes

Sophomore Year

THIRD SEMESTER		
Course Title	Catalog Number	Prerequisite(s)
Calculus III (4)	MAT263	MAT 162
Using Technology to Explore Calculus III (1)	MAT264	MAT 164
Computer Mathematics I (3)	MAT241	MAT 161 & 163
IF course(s)		

FOURTH SEMESTER		
Course Title	Catalog Number	Prerequisite(s)
Introduction to Linear Algebra (3)	MAT202	MAT 161
Discrete Mathematics (3)	MAT270	MAT 161
Concentration Required/Elective (3)	MAT319	Check prereq.
IF course(s)		

Notes:

Junior Year

FIFTH SEMESTER		
Course Title	Catalog Number	Prerequisite(s)
Probability Theory (3)	MAT381	MAT 162 & 270
Differential Equations (3)	MAT315	MAT 263
Concentration elective/required (3)	MAT461/318	Check prereq
Upper division Elective (3)		
SIXTH SEMESTER		

Course Title	Catalog Number	Prerequisite(s)
Mathematical Statistics (3)	MAT382	MAT 263 & 381
Concentration required/elective (3)	MAT390	Check prereq
Concentration required/electiv (3)	MAT316/486	Check prereq
Upper division Elective (3)		

Notes: One Upper division elective must be taken either in Fall or Spring (or in both semesters, especially if MAT 461 is not offered in that academic year). Please pay close attention to the course offerings as there are conflicting information on the course catalog website.

Senior Year

SEVENTH SEMESTER		
Course Title	Catalog Number	Prerequisite(s)
Concentration Elective/required (3)	MAT 383	
Concentration Elective/required (3)	MAT 481	
Upper division Elective (3)		

EIGHTH SEMESTER		
Course Title	Catalog Number	Prerequisite(s)
Special Project (3)	AMT495	
Concentration Elective/required (3)	MAT 484	
Upper Division Math Elective (3)		

Notes: To be able make this roadmap work, we need to offer MAT 383 in Fall semesters, rather than in Spring Semesters.