

ACADEMIC ROADMAP
B.A. 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: Both semesters need to total at least 14 credit hours

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
Discrete Math (3)	MAT270	MAT 161
IF course(s)		

FOURTH SEMESTER		
Course Title	Catalog Number	Prerequisite(s)
Introduction to Linear Algebra (3)	MAT202	MAT 161
Technique of Proof (3)	MAT300	MAT 161 & 270
IF course(s)		

Notes: One semester should total 17 credits, the other 15 credits

Junior Year

FIFTH SEMESTER		
Course Title	Catalog Number	Prerequisite(s)
Probability (3)	MAT381	MAT 162 & 270
Upper Division Math Elective (3)		Check the prereq
IF course(s)		

SIXTH SEMESTER		
Course Title	Catalog Number	Prerequisite(s)
Fundamentals of Abstract Algebra (3)	MAT301	MAT 202 & 300
Upper Division Math Elective (3)		Check the prereq
IF course(s)		

Notes: Both semesters should total 15 credit hours

Senior Year

SEVENTH SEMESTER		
Course Title	Catalog Number	Prerequisite(s)
Introduction to Real Analysis (3)	MAT417	MAT 263
Upper Division Math Elective (3)		Check the prereq

EIGHTH SEMESTER		
Course Title	Catalog Number	Prerequisite(s)
Complex Variables (3)	MAT411	MAT 263
Capstone Research in Mathematics (3)	MAT491	MAT 301 or 417
Upper Division Math Elective (3)		

Notes: Both semesters should total 15 credit hours

Everyone needs 45 credit hours in upper division electives (30 credit hours will be in Math class) – 300 or 400 level course.

Possible upper division Math electives (check prerequisites!): MAT 302, MAT 309, MAT 315, MAT 316, MAT 351, MAT 370, MAT 382, MAT 383, MAT 401, MAT 404, MAT 418, MAT 431, MAT 461, MAT 471, MAT 481, MAT 484, MAT 490, MAT 495, MAT 499.