

Mathematics (B.S.) Curriculum Map

* **INTRODUCTORY**- introduce learning goals (update or initial reflection)

* **DEVELOPMENTAL**- develop/emphasize learning goals (places of formative assessment)

* **MASTERY**- mastery/measure learning goals (assignments, capstones, places of summative assessment)

P.O. #1 EFFECTIVE THINKING AND
COMMUNICATION SKILLS

P.O. #2 LINK APPLICATIONS AND THEORY

P.O. #3 USE TECHNOLOGICAL TOOLS

P.O. #4 DEVELOP MATHEMATICAL
INDEPENDENCE AND EXPERIENCE OPEN-

P.O. #5 TRAINING TO GO INTO MATH
CAREERS AND MATH GRADUATE
PROGRAMS

CORE COURSE REQUIREMENTS							
Course Code	Required/ Elective	Course Name					
CSC 111	R	INTRODUCTION TO COMPUTING	I	I	I	I	I
CSC 206	R	INTERMEDIATE PROGRAMMING	I	I	D	D	D
MAT 201	R	CALCULUS I	I	I	D	I	I
MAT 202	R	CALCULUS II	I	D	D	I	I
MAT 207	R	DISCRETE MATHEMATICS	D	I	I	D	D
MAT 211	R	DIFFERENTIAL EQUATIONS	D	D	D	D	D
MAT 312	R	LINEAR AND MATRIX ALGEBRA	D	D	D	D	D
MAT 313	E	COLLEGE GEOMETRY	I	I	I	D	D
MAT 318	E	ELEMENTARY NUMBER THEORY	I	D	I	M	D
MAT 321	R	CALCULUS III	I	D	D	D	D
MAT 325	E/R*	PROBABILITY AND STATISTICS	D	D	D	D	D
MAT 401	E/R*	HIGHER ALGEBRA	I	I	I	M	M
MAT 421	E/R*	ADVANCED CALCULUS I	I	D	I	M	M
MAT 429	E	TOPICS IN MATHEMATICS	D	M	D	M	M
MAT 455	E/R*	MATHEMATICAL METHODS IN PHYSICS	D	M	D	M	M
MAT 498	R	SENIOR PAPER/PROJECT PREPARATION	M	M	M	M	M
MAT 499	R	SENIOR PAPER/PROJECT	M	M	M	M	M