Mathematics Department – Major in Mathematics – Pure Mathematics Specialization
Liberal Studies Requirements **2021-22 Catalog**

Name:	Banner ID:	Advisor:

LEARNING SKILLS:
English Composition = 6 cr (2 courses required)
Mathematics requirement included in major area.

ENGL 101 Composition I	3		
ENGL 202 Composition II	3		

HUMANITIES: 9 cr (3 courses required; 1 in history, 1 in literature, 1 in philosophy or religious studies)

HIST 196, HIST 197, HIST 198	3		
Lit: ENGL 121, ARHU 122, ARHU 123, FNLG 121, ENGL 225, ENGL 256	3		
Phil/Rel: PHIL 100, PHIL 101, PHIL 122, PHIL 130, PHIL 223, PHIL 240, RLST 100, RLST 100, RLST 120	3		

FINE ARTS = 3 cr (1 course required)

ARHI 101, DANC 102, FIAR 101, MUHI 101, THTR 101, THTR 161	3		

NATURAL SCIENCE = 7-8 cr Check which selected.
❑ Option 1: Two courses with lab (4cr ea = 8cr)
❑ Option 2: 1 lab and 1 non-lab courses (4cr + 3cr = 7cr)

SOCIAL SCIENCE = 9 cr (3 courses required; no prefix may be used more than once)

DIMENSIONS OF WELLNESS = 3-4 cr (1 three-credit 143 course or 2 two-credit military science courses may be substituted)
COMM 143, COSC 143, ECON 143, FCSE 143, FDNT 143, FIN 143, KHSS 143, NURS 143, MLSC 101/102

LIBERAL STUDIES ELECTIVES = 6 cr
No course with MATH prefix can be used; no course prefix may be used more than once except foreign language which may be used twice (but **not** 101); **an intermediate level foreign language is required**.

GLOBAL AND MULTICULTURAL AWARENESS (May be met by a course taken as a social science or liberal studies elective or by a class from the appropriate list.)

WRITING INTENSIVE REQUIREMENT (two courses required, at least one in major)

MATH 271	

Be careful! Consult the Undergraduate Catalog for courses that satisfy Social Science, Global/Multicultural, and Liberal Studies Electives.

Total Number of Credits (this page):

MATHEMATICS MAJOR

Core Courses

MATH 111 First-year Seminar	1		
MATH 125 Calculus I for Phys/Chem/Math	3		
MATH 126 Calculus II for Phys/Chem/Math	3		
MATH 171 Introduction to Linear Algebra	3		
MATH 216 Probability & Statistics for Nat. Sci.	3		
MATH 225 Calculus III for Phys/Chem/Math	3		
MATH 271 Introduction to Mathematical Proofs I	3		
MATH 272 Introduction to Mathematical Proofs II	3		
MATH 341 Differential Equations	3		
MATH 480 Seminar (Junior Year)	2		
MATH 480 Seminar (Senior Year)	1		
OR MATH 493 Internship (can replace both Seminars)			

Other Requirements

COSC 110 Problem Solving and Structured Programming	3		

Free Electives (20-22 or to reach 120 credits)

120 Credits Required for graduation

Required Courses

Six courses from the following: MATH 353, 355, 371, 421, 422, 423, 427, 476, 477			
	3		
	3		
	3		
	3		
	3		
	3		
Two courses from the following: MATH 342, 363, 364, 416, 445, 446, 447, 448, 481			