



BACHELOR of SCIENCE in MATHEMATICS (#528)

B3: Fundamentals of Mathematical Studies

Department of Mathematics

Ogden College of Science and Engineering

Western Kentucky University

The suggested program of study shown below should be used in consultation with your advisor(s). Every student will finish with a unique plan of his/her own depending on the electives selected.

SAMPLE – Finish in Four Plan

FIRST YEAR			
Fall Semester		Spring Semester	
MATH 136 – Calculus I (F-Quantitative Reasoning)	4	MATH 137 - Calculus II	4
CS 180 – Computer Science I	4	CS 221 – Computer Science II OR STAT 330 – Intro to Statistical Software OR MATH 371 – Computational Problem Solving	3-4
ENG 100 – Introduction to College Writing (F-College Composition)	3	COMM 145 – Fundamentals of Public Speaking and Communication (F-Human Communication)	3
Colonnade (E-Natural & Physical Science, with lab)	3-5	HIST 101 – World History I OR HIST 102 – World History II (F-World History)	3
		Colonnade (E-Social & Behavioral Sciences)	3
TOTAL CREDIT HOURS	14-16	TOTAL CREDIT HOURS	16-17

SECOND YEAR			
Fall Semester		Spring Semester	
MATH 307 - Linear Algebra	3	MATH 237 – Multivariable Calculus	4
MATH 310 – Discrete Math	3	Math Elective (300/400 level)*	3
ENG 200 – Introduction to Literature (F-Literary Studies)	3	Math Elective (300/400 level)*	3
Colonnade (E-Arts & Humanities)	3	Colonnade (F-Writing in the Disciplines)	3
Foreign Language	3	Colonnade (E-Natural & Physical Sciences)	3
TOTAL CREDIT HOURS	15	TOTAL CREDIT HOURS	16

THIRD YEAR			
Fall Semester		Spring Semester	
MATH 317 – Introduction to Algebraic Systems	3	MATH 337 – Elements of Real Analysis	3
Math Elective (300/400 level)*	3	MATH 450 – Complex Variables	3
Colonnade (C-Local to Global)	3	Math Elective (300/400 level)*	3
Colonnade (C-Social & Cultural)	3	Colonnade (C-Systems)	3
General Elective	3	General Elective	3
TOTAL CREDIT HOURS	15	TOTAL CREDIT HOURS	15

FOURTH YEAR			
Fall Semester		Spring Semester	
MATH 431 – Intermediate Analysis I	3	MATH 498 – Senior Seminar General Elective	3
Math Elective (300/400 level)*	3	Math Elective (300/400 level)*	3
General Electives	8	General Electives	6-9
TOTAL CREDIT HOURS	14	TOTAL CREDIT HOURS	12-15

Total Credit Hours: 120

* Two courses from MATH 405, 406, 409, 415, 417, 423, 435, 439, 470, 473, 482. Twelve more hours from MATH 275 (up to 3 hours), STAT 301, MATH 305, 315, 323, 331, 370, 371 (if not taken instead of CS 221), 382, 398 (up to 3 hours), 405, 406, 409, 415, 423, 435, 470, 473, 475 (up to 6 hours), 482.

For more details and courses offered in the Colonnade General Education program visit the [website](#).

World Language Requirement: Language Proficiency of novice-high before completing 60 credit hours is required (or completion of 2nd level of a language). Two credits (or equivalent) of a single world language in High School satisfies this WKU requirement.

For more Information:

Department: Mathematics

Website: www.wku.edu/math

Phone: (270)745-3651

Email: math@wku.edu

Course Descriptions: <http://www.wku.edu/undergraduatecatalog/>