



BACHELOR of ARTS in MATHEMATICS (#528)
B2: Fundamentals of Applied Mathematics
 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.

Success Markers

SAMPLE - 4 year plan

FIRST YEAR <i>Visit The Learning Center for free tutoring</i>	Fall Semester		Spring Semester	
	MATH 136 – Calculus I (F-Quantitative Reasoning)	4	MATH 137 - Calculus II	4
	CS 180 – Computer Science I	4	CS 181 – Computer Science II OR MATH 371 – Computational Problem Solving	3-4
	PHIL 215 – Elementary Logic (prerequisite for CS 181 if taking that course) OR EE 180 – Digital Circuits	3	ENG 100 – Introduction to College Writing (F-College Composition)	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 317 – Introduction to Algebraic Systems	3
	COMM 145 – Fundamentals of Public Speaking and Communication (F-Human Communication)	3	MATH 331 – Differential Equations	3
	ENG 200 – Introduction to Literature (F-Literary Studies)	3	Colonnade (E-Arts & Humanities)	3
	Foreign Language	3	Colonnade (E-Natural & Physical Sciences)	3
	TOTAL CREDIT HOURS	15	TOTAL CREDIT HOURS	16

WINTER TERM <i>Why not Study Abroad?</i>	Winter Term	
	TOTAL CREDIT HOURS	

THIRD YEAR <i>Visit Career Services</i>	Fall Semester		Spring Semester	
	MATH 370 – Applied Techniques in Mathematics	3	MATH 337 – Elements of Real Analysis	3
	MATH 382 – Probability and Statistics I	3	Math Elective (300/400 level)*	3
	MATH 405 – Numerical Analysis I	3	Colonnade (C-Local to Global)	3
	Colonnade (F-Writing in the Disciplines)	3	Colonnade (C-Systems)	3
	Colonnade (C-Social to Cultural)	3	General Elective	3
	TOTAL CREDIT HOURS	15	TOTAL CREDIT HOURS	15

SUMMER TERM	Summer Term
	It is STRONGLY recommended to pursue an internship in your prospective career field after the third year.

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

Total Credit Hours: 120

* Two courses from MATH 305, 406, 435, 470, 482. Three more hours from MATH 275 (up to 3 hours), STAT 301, MATH 305, 315, 323, 371 (if not taken in place of CS 181), 398 (up to 3 hours), 406, 409, 415, 417, 423, 435, 439, 450, 470, 473, 475 (up to 6 hours), 482.

PLEASE NOTE: Prerequisites, Course Numbers, and Course Titles are subject to change.

Consult your advisor each semester.

Course Descriptions may be viewed at <http://www.wku.edu/catalog>

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/>