	BACHELOR of SCIENCE 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.

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 331 – Differential Equations	3
ENG 200 – Introduction to Literature (F-Literary Studies)	3	Math Elective (300/400 level)*	3
Colonnade (E-Arts & Humanities)	3	Colonnade (E-Natural & Physical Sciences)	3
Foreign Language	3	Colonnade (F-Writing in the Disciplines)	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 382 – Probability and Statistics I	3	MATH 370 – Applied Techniques in Mathematics	3
MATH 405 – Numerical Analysis I	3	Colonnade (C-Local to Global)	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	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, 331, 370, 371 (if not taken instead of CS 211), 398 (up to 3 hours), 406, 409, 415, 417, 423, 435, 439, 450, 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/

BACHELOR of SCIENCE in Mathematics: B2 Fundamentals of Applied Mathematics - Sample 4 year plan (2019-2020)