



**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**

<b>FIRST YEAR</b>	<b>Fall Semester</b>		<b>Spring Semester</b>	
	<i>Visit The Learning Center for free tutoring</i>	CS 180 – Computer Science I	4	CS 181 – Computer Science II
ENG 100 – Introduction to College Writing		3	PHIL 215 – Elementary Logic	3
General Education Course DL		4	HIST 119 – Western Civ to 1648 <b>OR</b> HIST 120 – Western Civ Since 1648	3
MATH 136 – Calculus I		4	PE 101	1
			MATH 137* - Calculus II	4
<b>TOTAL CREDIT HOURS</b>		<b>15</b>	<b>TOTAL CREDIT HOURS</b>	<b>15</b>

<b>SECOND YEAR</b>	<b>Fall Semester</b>		<b>Spring Semester</b>	
	General Education Course A-III	3	General Education Course C	3
ENG 200 – Intro to Literature	3	General Education Course D	3	
General Education Course A-II	3	MATH 317 – Introduction to Algebraic System	3	
MATH 307* - Linear Algebra	3	MATH 237 – Multivariable Calculus	4	
MATH 310 – Discrete Math	3	MATH 331 – Differential Equations	3	
<b>TOTAL CREDIT HOURS</b>	<b>15</b>	<b>TOTAL CREDIT HOURS</b>	<b>16</b>	

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

THIRD YEAR  <i>Visit <a href="#">Career Services</a></i>	Fall Semester		Spring Semester	
	ENG 300 – Writing in the Disciplines	3	General Education Course C	3
	PE 101 – Activity Course	1	General Elective	3
	General Education Course B	3	General Elective	3
	NATH 370 – Applied Techniques in mathematics	3	MATH 337 – Elements of Real Analysis	3
	MATH 382 – Probability and Statistics	3	Math Elective (300/400 level)**	3
	MATH 405 – Numerical Analysis I	3		
	<b>TOTAL CREDIT HOURS</b>	<b>16</b>	<b>TOTAL CREDIT HOURS</b>	<b>15</b>

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

FOURTH YEAR  <i><a href="#">Apply for Graduation</a></i>  <i>Celebrate</i>	Fall Semester		Spring Semester	
	General Education Course E	3	General Elective	3
	General Elective	3	General Elective	3
	General Elective	2	General Elective	2
	MATH 431 – Intermediate Analysis I	3	Math Elective (300/400 level)**	3
	MATH 498 – Senior Seminar	3	Math Elective (300/400 level)**	3
	<b>TOTAL CREDIT HOURS</b>	<b>14</b>	<b>TOTAL CREDIT HOURS</b>	<b>14</b>

**Total Credit Hours: 120**

\* Denotes prerequisite courses before admission

\*\* 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, 398 (up to 3 hours), 406, 409, 415, 417, 423, 432, 435, 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.

**For more Information:**

**Department:** Mathematics

**Website:** [www.wku.edu/math](http://www.wku.edu/math)

**Phone:** (270)745-3651

**Email:** [math@wku.edu](mailto:math@wku.edu)

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