



**BACHELOR of Science in MATHEMATICAL ECONOMICS (#731)**  
**ACTUARIAL SCIENCE**  
 Department of Mathematics / Department of Economics  
 Ogden College of Science and Engineering / Gordon Ford College of Business  
 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>  <i>Visit <a href="#">The Learning Center</a> for free tutoring</i>	<b>Fall Semester</b>		<b>Spring Semester</b>	
	MATH 136 – Calculus I (F-Quantitative Reasoning)	4	MATH 137 – Calculus II	4
	ENG 100 – Introduction to College Writing (F-College Composition)	3	COMM 145 – Fundamentals of Public Speaking and Communication (F-Human Communication)	3
	HIST 101 – World History I <b>OR</b> HIST 102 – World History II (F-World History)	3	Colonnade (E-Arts & Humanities)	3
	Colonnade (E-Social & Behavioral Sciences)	3	Colonnade (E-Natural & Physical Sciences)	3
	Foreign Language	3	ACCT 200 – Introductory Accounting – Financial	3
	<b>TOTAL CREDIT HOURS</b>	<b>16</b>	<b>TOTAL CREDIT HOURS</b>	<b>16</b>

<b>SECOND YEAR</b>	<b>Fall Semester</b>		<b>Spring Semester</b>	
	ECON 202 - Principles of Economics (Micro)	3	ECON 203 - Principles of Economics (Macro)	3
	ECON 206 – Statistics <b>OR</b> STAT 301 – Probability and Applied Statistics	3	MATH 237 – Multivariable Calculus	4
	MATH 307 – Introduction to Linear Algebra	3	CS 170 – Problem Solving and Programming <b>OR</b> CS 180 – Computer Science I	3-4
	MATH 310 – Introduction to Discrete Math	3	ENG 200 – Introduction to Literature (F-Literary Studies)	3
	Colonnade (E-Natural & Physical Science, with lab)	3-5	Colonnade (C-Social to Cultural)	3
	<b>TOTAL CREDIT HOURS</b>	<b>15-17</b>	<b>TOTAL CREDIT HOURS</b>	<b>16-17</b>

<b>WINTER TERM</b>  <i>Why not <a href="#">Study Abroad?</a></i>	<b>Winter Term</b>	
	<b>TOTAL CREDIT HOURS</b>	

THIRD YEAR  <i>Visit <a href="#">Career Services</a></i>	Fall Semester		Spring Semester	
	ECON 302 – Microeconomic Theory	3	ECON 303 – Macroeconomic Theory	3
	ECON 307 – Financial Data Modeling	3	ECON 465 – Regression and Econometric Analysis <b>OR</b> ECON 480 – Economic Forecasting <b>OR</b> STAT 401 – Regression Analysis	3
	FIN 330 – Principles of Financial Management	3	FIN 350 – Risk Management and Insurance	3
	MATH 382 – Probability and Statistics I	3	MATH 482 – Probability and Statistics II	3
	Colonnade (F-Writing in the Disciplines)	3	Colonnade (C-Local to Global)	3
	<b>TOTAL CREDIT HOURS</b>	<b>15</b>	<b>TOTAL CREDIT HOURS</b>	<b>15</b>

SUMMER TERM	Summer Term
	It is <b>STRONGLY</b> recommended to pursue an internship in actuarial science after the third year.

FOURTH YEAR  <i><a href="#">Apply for Graduation</a></i>  <i>Celebrate</i>	Fall Semester		Spring Semester	
	FIN 332 – Investment Theory	3	ECON 497 <b>OR</b> MATH 497 – Senior Seminar in Mathematical Economics	1
	FIN 437 – Corporate Asset Management	3	FIN 438 – Corporate Funds Management	3
	Colonnade (C-Systems)	3	General Electives	8-11
	General Elective	3		
	<b>TOTAL CREDIT HOURS</b>	<b>12</b>	<b>TOTAL CREDIT HOURS</b>	<b>12-15</b>

**Total Credit Hours: 120**

**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

Economics

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

[www.wku.edu/economics](http://www.wku.edu/economics)

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