



**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. Admission to the major is required to register for all 300 and 400 nursing classes. All upper-division nursing courses must be taken in sequence to meet NURS course prerequisite requirements.

**SAMPLE – Finish in Four Plan**

<b>FIRST YEAR</b>			
<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>

THIRD YEAR			
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>

FOURTH YEAR			
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**

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](http://www.wku.edu/math)

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

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

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

Economics

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

270-745-2249

[econ@wku.edu](mailto:econ@wku.edu)