



**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.

SAMPLE – Finish in Four Plan

FIRST YEAR			
Fall Semester		Spring Semester	
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 OR 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
TOTAL CREDIT HOURS	16	TOTAL CREDIT HOURS	16

SECOND YEAR			
Fall Semester		Spring Semester	
ECON 202 - Principles of Economics (Micro)	3	ECON 203 - Principles of Economics (Macro)	3
ECON 206 – Statistics OR 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 OR 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 & Cultural)	3
TOTAL CREDIT HOURS	15-17	TOTAL CREDIT HOURS	16-17

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 OR ECON 480 – Economic Forecasting OR 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
TOTAL CREDIT HOURS	15	TOTAL CREDIT HOURS	15

FOURTH YEAR			
Fall Semester		Spring Semester	
FIN 332 – Investment Theory	3	ECON 497 OR MATH 497 – Senior Seminar in Mathematical Economics	1
FIN 437 – Corporate Asset Management	3	General Electives	11-14
Colonnade (C-Systems)	3		
General Elective	3		
TOTAL CREDIT HOURS	12	TOTAL CREDIT HOURS	12-15

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

Phone: (270)745-3651

Email: math@wku.edu

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

Economics

www.wku.edu/economics

270-745-2249

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