



# Department of Mathematics



## Requirements for the 5-yr BS/MA Degree with a Major in Applied Mathematics/Economics

www.math.uakron.edu

STUDENT NAME: \_\_\_\_\_

STUDENT ID#: \_\_\_\_\_

### Undergraduate Level Course Requirements

At least 44 credit hours including:

3450:221	Analytic Geometry-Calculus I	4.0	_____
3450:222	Analytic Geometry-Calculus II	4.0	_____
3450:223	Analytic Geometry-Calculus III	4.0	_____
3450:307	Fundamentals of Advanced Mathematics	3.0	_____
3450:312	Linear Algebra	3.0	_____
3450:335	Introduction to Ordinary Differential Equations	3.0	_____
*3460:209	Computer Science I	4.0	_____
3450:421	Advanced Calculus I	3.0	_____
3450:422	Advanced Calculus II	3.0	_____
3450:427	Applied Numerical Methods I	3.0	_____
3450:428	Applied Numerical Methods II	3.0	_____
3450:436	Mathematical Models	3.0	_____
3470:461	Applied Statistics	4.0	_____

At least 27 Business or Economics credits including:

3250:244	Intro to Economic Analysis	3.0	_____
6200:201	Accounting Principles I	3.0	_____
6200:202	Accounting Principles II	3.0	_____
6200:250	Spreadsheet Modeling	3.0	_____
3250:400	Intermediate Macroeconomics	3.0	_____
3250:410	Intermediate Microeconomics	3.0	_____
3250:426	Applied Econometrics	3.0	_____
3250:5xx	Approved Elective***	3.0	_____
3250:620	Applications of Math Models to Econ***	3.0	_____

### Undergraduate Electives

At least 7 credits

\_\_\_\_\_ .0 \_\_\_\_\_

\_\_\_\_\_ .0 \_\_\_\_\_

Foreign Language: \_\_\_\_\_ 101 \_\_\_\_\_ 102 \_\_\_\_\_  
 \_\_\_\_\_ 201 \_\_\_\_\_ 202 \_\_\_\_\_

Sign Language: \_\_\_\_\_ 222 \_\_\_\_\_

Foreign Language has four specific courses and Sign Language has five specific courses. Both options total 14 credits for the language requirement.

General Education Requirements: See Other Side  
July 16, 2014-Gold

### NOTES:

- The courses 3450:100, 140, 135, 145, 149, and 401 do not meet major requirements.
- The student is required to take 47 hours of 300/400 level courses not including general education courses and workshops.
- The student must achieve an overall GPA of 2.0 for all courses taken and a 2.0 GPA for courses in the major in order to graduate.
- This program of study and the general education evaluation are effective for 5 years from date of signature. If there is a change in a major or a transfer to another college, a new program of study must be drawn up. A minimum of 120 earned, approved semester credit hours are needed for graduation.

**\*This course will count towards the requirement of 47 credits of 300/400 level courses.**

**Subject to approval by the Dean, up to six credits of courses prerequisite to those taken at the 300/400 level will count towards the 47-hour requirement in Note 2. These approved courses count as 300/400 level electives.**

### Graduate Level Course Requirements

3250:602	Macroeconomic Analysis I	3.0	_____
3250:611	Microeconomic Theory I	3.0	_____
3520:620	Applications of Mathematical Models to Economics***	3.0	_____
3250:626	Statistics for Econometrics	3.0	_____
3250:627	Econometrics	3.0	_____
3250:5xx or 6xx	Approved Elective _____	3.0	_____
3250:5xx or 6xx	Approved Elective _____	3.0	_____
3250:5xx or 6xx	Approved Elective _____	3.0	_____
3250:5xx or 6xx	Approved Elective _____	3.0	_____
3250:5xx	Approved Elective*** _____	3.0	_____

**Courses marked with \*\*\* are to be applied to the requirements of both the bachelor's and master's degree.**

\_\_\_\_\_  
 Advisor's Signature Date

\_\_\_\_\_  
 Student's Signature Date

\_\_\_\_\_  
 Department Chair's Signature Date

COMMENTS \_\_\_\_\_

# The University of Akron

## General Education Requirement

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|---|--|
| <p>1. English Composition (7 credits)</p> <p>3300:111 _____ __cr.____</p> <p>3300:112 _____ __cr.____</p> <p>2. Mathematics (3 credits)</p> <p>3450: _____ __cr.____</p> <p style="padding-left: 20px;">or</p> <p>3470: _____ __cr.____</p> <p>3. Natural Science (8 credits)<br/>(Minimum of 2 courses, one of which has a lab component,<br/>selected from two different departments)</p> <p>Biology _____ __cr.____</p> <p style="padding-left: 20px;">or</p> <p>Chemistry _____ __cr.____</p> <p style="padding-left: 20px;">or</p> <p>Geology _____ __cr.____</p> <p style="padding-left: 20px;">or</p> <p>Physics _____ __cr.____</p> <p>4. Oral Communication (3 credits)</p> <p>7600:105 _____ __cr.____</p> <p style="padding-left: 20px;">or</p> <p>7600:106 _____ __cr.____</p> <p>5. Physical Education/Wellness (1 credit)</p> <p>5540: _____ __cr.____</p> <p>5540: _____ __cr.____</p> | <p>6. Social Sciences (6 credits)<br/>(Courses selected from two different sets)</p> <p>Economics _____ __cr.____</p> <p>Geography _____ __cr.____</p> <p>US Govt/Politics _____ __cr.____</p> <p>Psychology _____ __cr.____</p> <p>Sociology/Anthropology _____ __cr.____</p> <p>United States History _____ __cr.____</p> <p>Social Science/Technology _____ __cr.____<br/>/Society</p> <p>7. Humanities (10 credits – 3 courses)</p> <p>3400:210 _____ __cr.____</p> <p style="padding-left: 20px;">and</p> <p>2 courses selected from two different departments</p> <p>Fine Arts _____ __cr.____</p> <p style="padding-left: 20px;">or</p> <p>Philosophy/Classics _____ __cr.____</p> <p style="padding-left: 20px;">or</p> <p>Literature _____ __cr.____</p> <p style="padding-left: 20px;">or</p> <p>3400:211 _____ __cr.____</p> <p>8. Area Studies and Diversity (4 credits – 2 courses)</p> <p>_____ __cr.____</p> <p>_____ __cr.____</p> |
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