



# Department of Mathematics

## Requirements for a B.S. Degree with a Major in Applied Mathematics

www.uakron.edu/math



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

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

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

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

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

At least 40 credit hours in the department 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 \_\_\_\_\_  
3450:427 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 \_\_\_\_\_

Choose at least one from the following two courses:

3450:422 Advanced Calculus II 3.0 \_\_\_\_\_  
3450:425 Complex Variables 3.0 \_\_\_\_\_

### Electives

Fifteen hours of 300/400 level electives of which at least six-credits are at the 300/400 level in some approved applied area such as Chemistry, Computer Science, Physics, Economics, Engineering, etc.

\_\_\_\_\_ 3.0 \_\_\_\_\_  
\_\_\_\_\_ 3.0 \_\_\_\_\_

\*\*Other electives:

\_\_\_\_\_ 3.0 \_\_\_\_\_  
\_\_\_\_\_ 3.0 \_\_\_\_\_  
\_\_\_\_\_ 3.0 \_\_\_\_\_

**General Education Requirements: See Other Side**

### NOTES:

1. The courses 3450:100, 140, 135, 145, 149, and 401 do not meet major requirements.
2. The student is required to take 47 hours of 300/400 level courses not including general education courses and workshops.
3. 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.
4. 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 128 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.**

\_\_\_\_\_  
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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