



# Department of Theoretical and Applied Mathematics

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



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

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

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	_____

3450:312	Linear Algebra	3.0	_____
3450:335	Introduction to Ordinary Differential Equations	3.0	_____
*3460:209	Introduction to Computer Science	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 I	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

Eighteen hours of 300/400 level electives of which at least 3 credits are from approved 300/400 level 3450 courses,

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

and at least six-credits 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 \_\_\_\_\_

March 15, 2018-green

Foreign Language: \_\_\_\_\_ 101 \_\_\_\_\_ 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: [www.uakron.edu/academics\\_majors/ub/general-education](http://www.uakron.edu/academics_majors/ub/general-education)**

### NOTES:

- The courses 3450:100, 140, 135, 145, 149, and 401 do not meet major requirements.
- The student is required to take 40 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 40 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 40-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

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