



Department of Mathematics

Requirements for the 5-yr BS/MS Degree with a Major in Mathematics

www.uakron.edu/math



STUDENT NAME: _____

STUDENT ID#: _____

Undergraduate Level Course Requirements

At least 34 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	_____
3450:411	Abstract Algebra I	3.0	_____
3450:421	Advanced Calculus I	3.0	_____
3450:512	Abstract Algebra II***	3.0	_____
3450:522	Advanced Calculus II***	3.0	_____

Choose at least one from the following three courses:

3470:450	Probability	3.0	_____
3470:451	Theoretical Statistics I	3.0	_____
3470:461	Applied Statistics	4.0	_____

Undergraduate Electives

Complete 9 credits of approved 300/400—level courses in Mathematics, Applied Mathematics, Statistics, or Computer Science.

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

February 23, 2011-pink

Notes:

1. Students interested in graduate study should include the following courses in their program: 3450:412,422,445,425.
2. The student is required to take 47 hours of 300/400—level courses not including general education courses or workshops.
3. Students seeking certification in secondary education to teach mathematics must complete the following electives: 3450:401,441; 3470:450,461.
4. Students interested in Computer Science should include the following electives: 3460: *210, 316, 3450:415, 427 and the choice of 3450:413 or 3450:410.
5. 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 levels will count towards the 47-hour requirement in Note 2. These approved courses count as 300/400 level electives.

*** These courses are to be applied to the requirement of the bachelor's and master's degree

Graduate Level Course Requirements

3450:510 Advanced Linear Algebra
Or 3450:513 Theory of Numbers

3450:621 Real Analysis
Or 3450:625 Analytic Function Theory

3450: 636 Advanced Combinatorics and Graph Theory
3450:692 Seminar in Mathematics

One Statistics course selected from:

- 3470:550 Probability
- 3470:551 Theoretical Statistics I
- 3470:561 Applied Statistics I
- 3470:651 Probability and Statistics

Electives 6-9 credits

Advisor's Signature _____ Date _____

Student's Signature _____ Date _____

Department Chair's Signature _____ Date _____

COMMENTS _____

The University of Akron

General Education Requirement

- | | |
|---|--|
| <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)
(Minimum of 2 courses, one of which has a lab component,
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)
(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.____
/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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