### General Education Revision Requirements

Students must complete Writing, Mathematics, and Speaking requirements during their first year.

**ACADEMIC FOUNDATIONS**
- Writing: (6 cr - 2 courses)
- Quantitative Reasoning: (3 cr)
- Speaking: (3 cr)

**DISCIPLINARY AREAS**
- Arts/Humanities: (9 cr - 3 courses)
- Social Sciences: (6 cr - 2 courses)
- Natural Sciences: (7 cr - 2 courses)

**TAGS** (one class each)
- Critical Thinking (CT)
- Complex Systems (CS)
- Domestic Diversity (DD)
- Global Diversity (GD)

### College of Arts & Sciences Requirements

**Foreign Language:** (14 cr-4 courses)
- 101 Beginning I (4 cr)
- 102 Beginning II (4cr)
- 201 Intermediate I (3-4 cr)
- 202 Intermediate II (3-4 cr)

*7700:222 Survey Deaf Culture America (American Sign Language option only)*

**300/400 Upper Division Requirement:** (40 cr)

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### Applied Mathematics Requirements

**Applied Mathematics (3450) core: 44 credits**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>3450:221 Analytic Geometry - Calculus I</td>
<td>4 cr</td>
</tr>
<tr>
<td>3450:222 Analytic Geometry - Calculus II</td>
<td>4 cr</td>
</tr>
<tr>
<td>3450:223 Analytic Geometry - Calculus III</td>
<td>4 cr</td>
</tr>
<tr>
<td>3450:307 Fundamentals of Advanced Math</td>
<td>3 cr</td>
</tr>
<tr>
<td>3450:312 Linear Algebra</td>
<td>3 cr</td>
</tr>
<tr>
<td>3450:335 Intro to Ordinary Differential Eq</td>
<td>3 cr</td>
</tr>
<tr>
<td>3450:421 Advanced Calculus I</td>
<td>3 cr</td>
</tr>
<tr>
<td>3450:427 Applied Numerical Methods I</td>
<td>3 cr</td>
</tr>
<tr>
<td>3450:428 Applied Numerical Methods II</td>
<td>3 cr</td>
</tr>
<tr>
<td>3450:436 Mathematical Models</td>
<td>3 cr</td>
</tr>
<tr>
<td>*3460:209 Introduction to Computer Science</td>
<td>4 cr</td>
</tr>
<tr>
<td>3470:461 Applied Statistics</td>
<td>4 cr</td>
</tr>
</tbody>
</table>

**Choose at least one of the following two courses:**

- 3450:422 Advanced Calculus II (3 cr)
- 3450:425 Complex Variables (3 cr)

**Applied Mathematics (3450) electives: 15 credits at the 300/400 level of which at least 6 credits are from some approved applied area such as Mathematics (3450), Statistics (3470), Computer Science (3460), Chemistry, Physics, Economics, Engineering, etc.**

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**NOTE:**

2.0 GPA is required for all Mathematics (3450) courses.

* Counts as 300/400 upper division College of Arts and Sciences requirement.

A minimum of 14 credits of 3450, 3460, & 3470 must be taken at The University of Akron.

The courses 3450:100,135,140,145,149; 3470:250-257,260-262,280; and most 3460 courses do not meet these degree requirements.

Please see Undergraduate Bulletin for BS/MS information as well as cooperative education program information.

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**120 Credit Minimum**

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Revised 2/17