# Applied Mathematics, Bachelor of Science (B.S.) 345001BS Checklist

| General Education Revision Requirements<br>Students must complete Writing, Mathematics, and Speaking requirements during their first year. | |
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| ***ACADEMIC FOUNDATIONS*** | |
| **Writing:** (6 cr - 2 courses) | |
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| **Quantitative Reasoning:** (3 cr) | |
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| **Speaking:** (3 cr) | |
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| ***DISCIPLINARY AREAS*** | |
| **Arts/Humanities:** (9 cr- 3 courses) | |
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| **Social Sciences:** (6 cr -2 courses) | |
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| **Natural Sciences:** (7 cr -2 courses) | |
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| ***TAGS*** (one class each) | |
| **Critical Thinking (CT)** | |
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| **Complex Systems (CS)** | |
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| **Domestic Diversity (DD)** | |
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| **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)* | |
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| **300/400 Upper Division Requirement:** (40 cr) | |
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| Applied Mathematics Requirements | |
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| **Applied Mathematics (3450) core: 44 credits** | |
| 3450:221 Analytic Geometry - Calculus I (4 cr) | |
| 3450:222 Analytic Geometry - Calculus II (4 cr) | |
| 3450:223 Analytic Geometry - Calculus III (4 cr) | |
| 3450:307 Fundamentals of Advanced Math (3 cr) | |
| 3450:312 Linear Algebra (3 cr) | |
| 3450:335 Intro to Ordinary Differential Eq (3 cr) | |
| 3450:421 Advanced Calculus I (3 cr) | |
| 3450:427 Applied Numerical Methods I (3 cr) | |
| 3450:428 Applied Numerical Methods II (3 cr) | |
| 3450:436 Mathematical Models (3 cr) | |
| *3460:209 Introduction to Computer Science (4 cr) | |
| 3470:461 Applied Statistics (4 cr) | |
| **Choose at least one of the following two courses:** | |
| 3450:422 Advanced Calculus II (3 cr) | |
| 3450:425 Complex Variables (3 cr) | |
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| **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:<br>2.0 GPA is required for all Mathematics (3450) courses.<br><br>* Counts as 300/400 upper division College of Arts and Sciences requirement.<br><br>A minimum of 14 credits of 3450, 3460, & 3470 must be taken at The University of Akron.<br><br>The courses 3450:100,135,140,145,149; 3470:250-257,260-262,280; and most 3460 courses do not meet these degree requirements.<br><br>Please see Undergraduate Bulletin for BS/MS information as well as cooperative education program information. | |
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| **120 Credit Minimum** | |

**Revised 2/17**