## Option in Applied Discrete Mathematics

**Freshman**

<table>
<thead>
<tr>
<th>Fall</th>
<th>Hours</th>
<th>Spring</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1100 English Composition I</td>
<td>3</td>
<td>ENGL 1120 English Composition II</td>
<td>3</td>
</tr>
<tr>
<td>Core Science</td>
<td>4</td>
<td>Core Science</td>
<td>4</td>
</tr>
<tr>
<td>Core History</td>
<td>3</td>
<td>Core History or Literature</td>
<td>3</td>
</tr>
<tr>
<td>Core Humanities</td>
<td>3</td>
<td>COMP 1200 Introduction to Computing for Engineers and Scientists</td>
<td>2</td>
</tr>
<tr>
<td>MATH 1610 Calculus I</td>
<td>4</td>
<td>MATH 1620 Calculus II</td>
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<td><strong>Total</strong></td>
<td>17</td>
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**Sophomore**

<table>
<thead>
<tr>
<th>Fall</th>
<th>Hours</th>
<th>Spring</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>Core Literature</td>
<td>3</td>
<td>Core Social Science or Humanities</td>
<td>3</td>
</tr>
<tr>
<td>Core Social Science</td>
<td>3</td>
<td>COMP 3000 Object-Oriented Programming for Engineers and Scientists</td>
<td>3</td>
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<td>COMP 2000 Network Programming with HTML and Java</td>
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<td>MATH 3710 Discrete Mathematics</td>
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<tr>
<td>MATH 2660 Topics in Linear Algebra</td>
<td>3</td>
<td>MATH 2650 Linear Differential Equations</td>
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<tr>
<td>MATH 2630 Calculus III</td>
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<td>STAT 3600 Probability and Statistics I</td>
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<td><strong>Total</strong></td>
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**Junior**

<table>
<thead>
<tr>
<th>Fall</th>
<th>Hours</th>
<th>Spring</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>Core Social Science</td>
<td>3</td>
<td>Core Fine Arts</td>
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<tr>
<td>MATH 5750 Graph Theory</td>
<td>3</td>
<td>MATH 5330 Computational Algebra</td>
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<tr>
<td>MATH 5310 Introduction to Abstract Algebra I</td>
<td>3</td>
<td>Analysis Elective</td>
<td>3</td>
</tr>
<tr>
<td>Elective</td>
<td>4</td>
<td>Elective</td>
<td>4</td>
</tr>
<tr>
<td>Interdisciplinary Elective</td>
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<td>Interdisciplinary Elective</td>
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<td><strong>Total</strong></td>
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**Senior**

<table>
<thead>
<tr>
<th>Fall</th>
<th>Hours</th>
<th>Spring</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Algebra/Linear Algebra Elective</td>
<td>3</td>
<td>Discrete Math Elective</td>
<td>3</td>
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<tr>
<td>Discrete Math Electives</td>
<td>6</td>
<td>Math Elective</td>
<td>6</td>
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<tr>
<td>Interdisciplinary Elective</td>
<td>3</td>
<td>Elective</td>
<td>3</td>
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<td>UNIV 4AA0 University Graduation</td>
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Total Hours: 120

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1. Students must complete a two-course sequence in either HIST or LIT (for example, World History 1 and 2 or American Lit 1 and 2). For complete HIST and LIT sequence options, see the Bulletin.
2. Students who choose a HIST sequence other than HIST 1010 and HIST 1020 should talk to an advisor about CORE SOC SCI choices.
If a LIT sequence is chosen, this course must be a CORE SOC SCI. If a HIST sequence is chosen, this course must be a CORE HUMANITIES.

Core Science: One of the sequences PHYS 1600/PHYS 1610, BIOL 1020/BIOL 1030, CHEM 1030/CHEM 1040 with labs, or GEOL 1100/GEOL 1110.

Guidelines for Discrete Math electives, Math Electives, Applied Analysis Elective, Algebra/Linear Algebra Elective and Interdisciplinary Electives can be found online at http://www.auburn.edu/academic/cosam/departments/student-services/registration-and-planning/documents/12%20AMTH%20DISC.pdf

This course must be taken the semester of graduation.