MAJOR ACADEMIC PLAN (MAP): A SAMPLE 4-YEAR PLAN

This MAP is a guide for students preparing for course selections. This is a suggested schedule. Actual course selections should be made with the advice of your advising specialist or faculty advisor. For course descriptions, pre-requisites, and rotations (e.g., fall or spring only classes, classes taught in alternate years), consult the Heidelberg University Undergraduate Catalog.

FIRST-YEAR FALL

<table>
<thead>
<tr>
<th>Course</th>
<th>Prerequisites</th>
<th>Hrs</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>HEI 101: Advise, Inspire, Mentoring Program</td>
<td></td>
<td>1</td>
<td>Required of all first-year students.</td>
</tr>
<tr>
<td>WRI 101: College Writing II</td>
<td></td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>MTH 222: Calculus I</td>
<td>Placement</td>
<td>3</td>
<td>Mathematics Placement Assessment score determines placement in MTH courses and eligibility for non-MTH Quantitative Literacy (Q) courses.</td>
</tr>
<tr>
<td>PHY 101: General Physics I</td>
<td>Placement into MTH121, or C- or higher in MTH120.</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>General Education/Honors Support Courses</td>
<td></td>
<td>4</td>
<td></td>
</tr>
</tbody>
</table>

**Total Credits 15**

FIRST-YEAR SPRING

<table>
<thead>
<tr>
<th>Course</th>
<th>Prerequisites</th>
<th>Hrs</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>HEI 102: Advise, Inspire, Mentoring Program</td>
<td>HEI 101</td>
<td>0</td>
<td>Required of all first-year students.</td>
</tr>
<tr>
<td>COM 100: Oral Communication</td>
<td></td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>MTH 223: Calculus II</td>
<td>MTH 222</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>General Education/Honors Support Courses</td>
<td></td>
<td>9</td>
<td></td>
</tr>
</tbody>
</table>

**Total Credits 15**

SECOND-YEAR FALL

<table>
<thead>
<tr>
<th>Course</th>
<th>Prerequisites</th>
<th>Hrs</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>CPS 150: Fundamentals of Computer Science</td>
<td>Placement into, completion of, or concurrent enrollment in a 100 level or higher math course.</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>MTH 307: Calculus III</td>
<td>MTH 223</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>BIO/CHM/CPS/PHI/PHY Elective</td>
<td></td>
<td>3</td>
<td>Choose one course from any of the 5 departments listed. Work with your advisor to select a course most appropriate for your professional goals.</td>
</tr>
</tbody>
</table>

**Total Credits 15**
<table>
<thead>
<tr>
<th>Course</th>
<th>Prerequisites</th>
<th>Hrs</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Education/Honors Support Courses</td>
<td></td>
<td>5</td>
<td>Consider completing the <strong>Foreign Language Requirement</strong>: Students not in the Honors Program must complete a foreign language to the 102-level or equivalent. Placement is based on the Foreign Language Assessment and some students may need to begin at the 101-level.</td>
</tr>
</tbody>
</table>

**SECOND-YEAR SPRING**

<table>
<thead>
<tr>
<th>Course</th>
<th>Prerequisites</th>
<th>Hrs</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>CPS 200+ Level Course</td>
<td>Varies depending on course chosen</td>
<td>3</td>
<td>Choose a CPS course at the 200 level or above.</td>
</tr>
<tr>
<td>MTH 308: Calculus IV</td>
<td>MTH 307</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>General Education/Honors Support Courses</td>
<td></td>
<td>9</td>
<td></td>
</tr>
</tbody>
</table>

**Total Credits 15**

**THIRD-YEAR FALL**

<table>
<thead>
<tr>
<th>Course</th>
<th>Prerequisites</th>
<th>Hrs</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTH Elective</td>
<td></td>
<td>9</td>
<td>Choose from pick list on final page.</td>
</tr>
<tr>
<td>General Education/Honors Support Courses</td>
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<td>6</td>
<td></td>
</tr>
</tbody>
</table>

**Total Credits 15**

**THIRD-YEAR SPRING**

<table>
<thead>
<tr>
<th>Course</th>
<th>Prerequisites</th>
<th>Hrs</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTH Elective</td>
<td></td>
<td>6</td>
<td>Choose from pick list on final page.</td>
</tr>
<tr>
<td>General Education/Honors Support Courses</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Total Credits 15**

**FOURTH-YEAR FALL**

<table>
<thead>
<tr>
<th>Course</th>
<th>Prerequisites</th>
<th>Hrs</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTH 490: Math Capstone</td>
<td>COM 100, WRI 101</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>MTH Elective 400+ Level</td>
<td></td>
<td>3</td>
<td>Choose from pick list on final page.</td>
</tr>
<tr>
<td>General Education/Honors Support Courses</td>
<td></td>
<td>10</td>
<td></td>
</tr>
</tbody>
</table>

**Total Credits 15**

**FOURTH-YEAR SPRING**

<table>
<thead>
<tr>
<th>Course</th>
<th>Prerequisites</th>
<th>Hrs</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Math Elective</td>
<td></td>
<td>3</td>
<td>Choose from pick list on final page.</td>
</tr>
<tr>
<td>General Education/Honors Support Courses</td>
<td></td>
<td>12</td>
<td></td>
</tr>
</tbody>
</table>

**Total Credits 15**
## PROGRAM PICK LIST: ELECTIVES

Choose 5 courses PLUS 1 course at the 400 level

<table>
<thead>
<tr>
<th>Choose 15 additional credits (5 courses) from:</th>
<th>Choose 1 course from:</th>
</tr>
</thead>
<tbody>
<tr>
<td>• MTH 302: Ordinary Differential Equations</td>
<td>• MTH 401: Abstract Algebra</td>
</tr>
<tr>
<td>• MTH 303: Linear Algebra</td>
<td>• MTH 402: Topology</td>
</tr>
<tr>
<td>• MTH 305: College Geometry I</td>
<td>• MTH 403: Complex Analysis</td>
</tr>
<tr>
<td>• MTH 306: College Geometry II</td>
<td>• MTH 404: Real Analysis</td>
</tr>
<tr>
<td>• MTH 310: Introductions to Numerical Analysis</td>
<td></td>
</tr>
<tr>
<td>• MTH 312: Introduction to Mathematical Statistics</td>
<td></td>
</tr>
<tr>
<td>• MTH 321/322: Independent Study</td>
<td></td>
</tr>
<tr>
<td>• MTH 475/476: Honors Course (must be taken with 401, 402, 403 or 404)</td>
<td></td>
</tr>
</tbody>
</table>