### REQUIRED COURSES (RG 6864)

<table>
<thead>
<tr>
<th>Foundational Courses</th>
<th>CR</th>
<th>Satisfied/Term</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engrm 0003 or 0005</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Engrm 0004 or 0006</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Commpr 0002</td>
<td>3</td>
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</tr>
<tr>
<td>Math 0001</td>
<td>3</td>
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</tbody>
</table>

### Basic Algebra or Placement Test

<table>
<thead>
<tr>
<th>Subject</th>
<th>Number</th>
<th>Course Title</th>
<th>CR</th>
<th>Satisfied/Term</th>
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</thead>
<tbody>
<tr>
<td>Math</td>
<td>0001</td>
<td>Algebra 1</td>
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### Quantitative Reasoning (QR) - 1 Course

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<tbody>
<tr>
<td>Math</td>
<td>0401</td>
<td>Discrete Math Struct</td>
<td>3</td>
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Note: a student cannot test out of their QR requirement.

### WORLDs OF KNOWLEDGE (RG 6874)

<table>
<thead>
<tr>
<th>Aesthetic and Creative Expression (RG 3148)</th>
<th>Subject</th>
<th>Number</th>
<th>Course Title</th>
<th>CR</th>
<th>Satisfied/Term</th>
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</thead>
<tbody>
<tr>
<td>Engwr 1192 Technical Writing</td>
<td>3</td>
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<table>
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<table>
<thead>
<tr>
<th>Global History &amp; Culture (RG 3148)</th>
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<th>Satisfied/Term</th>
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<tbody>
<tr>
<td>Econ 0115 Macroeconomic Theory</td>
<td>3</td>
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<thead>
<tr>
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<table>
<thead>
<tr>
<th>Societies &amp; Civics (RG 3150)</th>
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<th>Satisfied/Term</th>
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<tbody>
<tr>
<td>Econ 0105 Microeconomic Theory</td>
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<table>
<thead>
<tr>
<th>Science &amp; Nature (RG 3153)</th>
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<tbody>
<tr>
<td>Math 0121 Business Calculus</td>
<td>4</td>
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### FREE ELECTIVES

Free electives are the balance of credits required for graduation (120) that are not used to satisfy competencies, knowledge areas, major requirements, electives, or any related area required by the department.

<table>
<thead>
<tr>
<th>Subject</th>
<th>Number</th>
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<th>Satisfied/Term</th>
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</thead>
</table>

Each student must take 2 courses in each World of Knowledge. The two courses taken within each World must be from different subjects. A student must take two additional "Follow-up" courses from any World.

- The minimum number of courses taken in the Worlds must be 10.
- The Follow-Up courses may repeat a subject previously taken in a World.
- A student cannot use a major required Subject course in one of the Worlds.
- For example: A Biology student cannot use BIOL 0110 to fulfill a requirement in the Science and Nature World.
- Students cannot use a course to count both in their QR requirement and one of the Worlds.
- Students can choose QR and Worlds of Knowledge courses from published course lists.

### MAJOR REQUIREMENTS (RG 7661)

<table>
<thead>
<tr>
<th>Required Economics (RG 3179)</th>
<th>Subject</th>
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<th>Satisfied/Term</th>
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<tbody>
<tr>
<td>Econ 0105 Microeconomic Theory</td>
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<table>
<thead>
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<th>Course Title</th>
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</table>

| Econ 0115 Macroeconomic Theory | 3       |        |              |    |                |

<table>
<thead>
<tr>
<th>Subject</th>
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<table>
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<tr>
<th>Required Math and CS (RG 3219.3180,3181)</th>
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<tbody>
<tr>
<td>Math 0401 Discrete Math Struct</td>
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<tr>
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| Math 0121 Business Calculus              | 4       |        |              |    |                |

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<thead>
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| CS 0015 Intro to CS Programming          | 3       |        |              |    |                |

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| CS 0016 Intro to CS Progr Appl            | 1       |        |              |    |                |

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<tr>
<td>Engwr 1192 Technical Writing</td>
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<td>IS Core</td>
<td>IS 0400 Intro to Information Systems</td>
<td>3</td>
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| Geog 0420 Cartography | 3 |        |              |    |                |

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| Geog 0120 GIS Special Projects | 3       |        |              |    |                |

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| Geog 0125 Remote Sensing | 3 |        |              |    |                |

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| Geog 0140 GIS | 3 |        |              |    |                |

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| Geog 0145 GIS | 3 |        |              |    |                |

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| Geog 0150 Enterprise Applications | 3 |        |              |    |                |

<table>
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| Geog 0170 Information Security | 3 |        |              |    |                |

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| Geog 0171 Advanced Information Security | 3 |        |              |    |                |

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| Geog 0175 Ethics Hacking | 3 |        |              |    |                |

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| Geog 0188 GIS Internship | 3 |        |              |    |                |

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| Geog 0189 GIS Independent Study | 3 |        |              |    |                |

<table>
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<th>Satisfied/Term</th>
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| CS 0417 Interim Prog Using Java | 3 |        |              |    |                |

<table>
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<th>Subject</th>
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</table>

- Course must be completed with a minimum grade of "C-"

**MGPA (RG 3773)**

<table>
<thead>
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<th>Subject</th>
<th>Number</th>
<th>Course Title</th>
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<th>Satisfied/Term</th>
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</thead>
</table>

**Residency (RG 3774)**

- Subject | Number | Course Title | CR | Satisfied/Term |
|---------|--------|--------------|----|----------------|

**Updated 5/15/20**

**IMPORTANT INFORMATION:**

This sheet is an unofficial representation of the major requirements and the information is subject to change. It is not an official record of academic progress and should not be treated as such. Official degree information can only be obtained through the Division Office or the Office of the Registrar.