<table>
<thead>
<tr>
<th>Requirements</th>
<th>Check List</th>
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<tbody>
<tr>
<td><strong>Admission Requirements</strong></td>
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<tr>
<td>Completion of first-year requirements with no failures*. Students must have an average of at least 70% in 3.0 principal courses, including 1.0 course from Geography 1100 Fundamentals of Geography, 1300A/B Intro to the Physical Environment, 1400F/G Intro to the Human Environment, 1500F/G Environment &amp; Development Challenges, 2131A/B Natural Environment, 2153A/B Environment, Economy, &amp; Society, Environmental Science 1021F/G Environmental Science &amp; Sustainability plus 2.0 more courses, with no mark in these courses below 60%. 1. 1.0 from Geography 1100, 1300B, 1400G, 1500F, 2131A/B, 2153A/B, Environmental Science 1021F/G</td>
<td>5.0 courses numbered 1000-1999 in at least four different subjects</td>
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<tr>
<td>2. _______________</td>
<td>□ 1.0 course 1001-1999 from Arts OR Science</td>
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<tr>
<td>3. _______________</td>
<td>□ 70% in 3.0 principal courses including 1.0 course from Geography</td>
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<td>4. _______________</td>
<td>1st Year PAVG: _____</td>
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<tr>
<td>5. _______________</td>
<td>Module AVG: _____</td>
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<td>*You may take senior courses only if you have completed all 1st yr requirements or you are completing them concurrently.</td>
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<table>
<thead>
<tr>
<th>Module Requirements</th>
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<tbody>
<tr>
<td><strong>0.5: Geography 2210A/B Spatial Analysis</strong> (normally taken in Year 2)</td>
<td>6.0 courses specified for the GIS Major</td>
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<td>□ 6.0 for the second major</td>
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<td>Essays:</td>
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<td>□ 2.0 designated essay courses including 1.0 at 2000 level or above</td>
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<td>Breadth:</td>
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<tr>
<td></td>
<td>□ 1.0 Category A course – Social Science</td>
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<td></td>
<td>□ 1.0 Category B course – Arts</td>
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<tr>
<td></td>
<td>□ 1.0 Category C course – Science</td>
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<td></td>
<td><strong>Number of Courses:</strong></td>
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<tr>
<td></td>
<td>□ 20.0 courses with no failures</td>
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<td></td>
<td>□ No more than 7.0 1rst yr courses</td>
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<td></td>
<td>□ 11.0 Science or Science-equivalent courses for the BSc</td>
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<td><strong>Averages:</strong></td>
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<tr>
<td></td>
<td>□ 70% cumulative average in the Module</td>
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<td></td>
<td>□ 70% cumulative average in the second major</td>
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<tr>
<td></td>
<td>□ 65% cumulative average on 20.0 courses successfully completed</td>
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<td><strong>Grades:</strong></td>
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<td>□ Minimum mark of 60% for each course in the module</td>
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<td>□ Passing grade in each option</td>
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<tr>
<td><strong>1.0: Geography 2220A/B Geographic Information Science</strong></td>
<td></td>
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<tr>
<td>2230A/B Remote Sensing</td>
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<tr>
<td>2240A/B Introductory Cartography</td>
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<tr>
<td><strong>1.0: Geography 2310A/B Weather and Climate</strong></td>
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<tr>
<td>2320A/B Introductory Biogeography</td>
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<tr>
<td>2330A/B Geomorphology and Hydrology</td>
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<tr>
<td>2410A/B Social Geography</td>
<td>2411F/G Indigenous Environments</td>
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<tr>
<td>2420A/B Economic Geography</td>
<td>2430A/B Public Health &amp; Environment</td>
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<tr>
<td>2450F/G Introduction to Resource and Environmental Management</td>
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<tr>
<td>2460F/G Introduction to Urban Development</td>
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<tr>
<td><strong>1.0: Geography 3211A/B Spatial Statistics</strong></td>
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<tr>
<td>3222A/B Geographic Information Science II</td>
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<tr>
<td><strong>2.0: Computer Science</strong> 2034A/B Data Analytics: Principles and Tools</td>
<td></td>
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<tr>
<td>2120 A/B Computing and Informatics for Life Sciences</td>
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<tr>
<td>Geography 3210A/B Quantitative Analysis</td>
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<tr>
<td>3221A/B Advanced Seminar in Geographic Information Science</td>
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<tr>
<td>3223A/B Decision-Making with GIS</td>
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<tr>
<td>3231A/B Advanced Topics in Remote Sensing</td>
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<tr>
<td>3260A/B Environmental Modeling with GIS and Remote Sensing</td>
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<tr>
<td>3321A/B Advanced Biogeography</td>
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<tr>
<td>3421A/B Location Theory and Analysis</td>
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<tr>
<td>4220A/B GeoWeb and Geomedia</td>
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<tr>
<td>Or the former Geog 2122A/B Spatial Techniques</td>
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It is the student’s responsibility to check that all the graduation requirements have been met.