

Name \_\_\_\_\_

**BA or BSc 4 YEAR OR BA 3 YEAR  
MAJOR IN GIS (6.0 courses)**

Requirements	Check List
<p><b>Admission Requirements</b>            Completion of 1<sup>st</sup> yr requirements*, including 1.0 course from Geog 1100 Fundamentals of Geog, 1300A/B Physical Geog, 1400F/G How Humans Interact with the World, 1500F/G Environment &amp; Development Challenges, 2131A/B Natural Environment, 2153A/B Environment, Economy, &amp; Society, with a mark of at least 60% in each Geog course            1.0 from Geog 1100, 1300B, 1400G, 1500F, 2131A/B, 2153A/B _____            2. _____ 3. _____            3. _____ 4. _____</p> <p><small>*You may take senior courses only if you have completed all 1<sup>st</sup> year requirements or you are completing them concurrently.</small></p>	<p><b>Year I</b></p> <p><input type="checkbox"/> 5.0 courses numbered 1000-1999 in at least four <b>different</b> subjects</p> <p><input type="checkbox"/> 1.0 course 1001-1999 from <b>Arts OR Science</b></p> <p><input type="checkbox"/> <b>60%</b> in 1.0 course from Geography</p>
<p><b>Module Requirements</b>  <b>0.5*:</b> Geography 2210A/B Spatial Analysis or any university-level statistics course at the 2000 level or above* (normally taken in Year 2) _____ <small>*If a 1.0 course is taken, the module will consist of 6.5 courses</small></p> <p><b>1.5:</b> Geography 2220A/B Geographic Information Science _____  <b>2230A/B Remote Sensing</b> _____  <b>2240A/B Introductory Cartography</b> _____</p> <p><b>1.0:</b> Geography 2310A/B Weather and Climate _____            2320A/B Introductory Biogeography _____            2330A/B Geomorphology and Hydrology _____            2410A/B Social Geography _____ 2411F/G Indigenous Environments _____            2420A/B Economic Geography _____ 2430A/B Public Health &amp; Environment _____            2450F/G Introduction to Resource and Environmental Management _____            2460F/G Introduction to Urban Development _____</p> <p><b>1.0:</b> Geography 3211A/B Spatial Statistics _____  <b>322A/B Geographic Information Science II</b> _____ (normally taken in year 3)</p> <p><b>2.0:</b> Computer Science 2034A/B Data Analytics: Principles and Tools _____            2120 A/B Computing and Informatics for Life Sciences _____            Geography 2122A/B Spatial Techniques _____            3210A/B Quantitative Analysis _____            3221A/B Advanced Seminar in Geographic Information Science _____            3223A/B Decision-Making with GIS _____            3231A/B Advanced Topics in Remote Sensing _____            3241A/B Advanced Cartography _____            3260A/B Environmental Modeling with GIS and Remote Sensing _____            3421A/B Location Theory and Analysis _____            4220A/B GeoWeb and Geomedia _____</p> <p><small>When taken within this module, the following Geog courses count towards meeting the requirement of 11.0 Science courses in a 4-Year BSc: Geog 2122A/B, 2131A/B, 2210A/B, 2220A/B, 2230A/B, 2240A/B, 2310A/B, 2320A/B, 2330A/B, 3210A/B, 3211A/B, 3221A/B, 3222A/B, 3223A/B, 3231A/B, 3241A/B, 3260A/B, 3311A/B, 3312A/B, 3321A/B, 3331A/B, 3333A/B, 3334A/B, 3341A/B, 3342A/B, 3343A/B, 3350A/B, 3351A/B, 3352A/B, 4901E.</small></p>	<p><b>Essential Module:</b></p> <p><input type="checkbox"/> <b>6.0</b> courses <i>specified for the GIS Major</i></p> <p><b>Essays:</b></p> <p><input type="checkbox"/> 2.0 <b>designated essay</b> courses including 1.0 numbered 2000 or above</p> <p><b>Breadth:</b></p> <p><input type="checkbox"/> 1.0 <b>Category A</b> course – Social Science</p> <p><input type="checkbox"/> 1.0 <b>Category B</b> course – Arts</p> <p><input type="checkbox"/> 1.0 <b>Category C</b> course – Science</p> <p><b>Number of Courses:</b></p> <p><input type="checkbox"/> <b>20.0</b> courses with no failures (for the 4 year BA or BSc)</p> <p><input type="checkbox"/> <b>15.0</b> courses with no failures (for the 3 year BA)</p> <p><input type="checkbox"/> No more than <b>14.0</b> courses in a subject</p> <p><input type="checkbox"/> No more than <b>7.0</b> Year I courses.</p> <p><input type="checkbox"/> <b>11.0 Science</b> or Science-equivalent courses for the 4 year BSc</p> <p><b>Averages:</b></p> <p><input type="checkbox"/> <b>60%</b> cumulative average in the Module</p> <p><input type="checkbox"/> <b>60%</b> cumulative average in any additional module taken</p> <p><input type="checkbox"/> <b>60%</b> cumulative average on 20.0 (or 15.0 for the BA 3 Year) courses successfully completed</p> <p><b>Grades:</b></p> <p><input type="checkbox"/> <b>Passing grade</b> in each option</p>

**It is the student's responsibility to check that all the graduation requirements have been met.**