<table>
<thead>
<tr>
<th>Year</th>
<th>Core</th>
<th>Additional</th>
<th>Electives</th>
</tr>
</thead>
<tbody>
<tr>
<td>I</td>
<td>3 Units from:</td>
<td>18 Units from Science Level 1 Course List:</td>
<td>6 units from Level 1 electives</td>
</tr>
<tr>
<td></td>
<td>- Math 1A03</td>
<td>- Math 1LS3</td>
<td>- __________</td>
</tr>
<tr>
<td></td>
<td>- Envir Sc 1A03</td>
<td>- Envir Sc 1B03</td>
<td>- __________</td>
</tr>
<tr>
<td></td>
<td>- Envir Sc 1C03</td>
<td>- Envir Sc 1G03</td>
<td>- __________</td>
</tr>
<tr>
<td></td>
<td>3 Units from:</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>- Geog 2G13</td>
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</tr>
</tbody>
</table>

| II   | 6 units from: | 6 units from | 0-3 units if not completed: one of Envir Sc 1A03, 1B03, 1G03 | 9-15 units; if not completed: |
|      |  - Envir Sc 2B03 |  - Geog 2EI3 |  - __________ |  - __________ |
|      |  - Envir Sc 2C03 |  - Geog 2HI3 |  - __________ |  - __________ |
|      |  - Envir Sc 2E03 |  - Geog 2LE3 |  - __________ |  - __________ |
|      |  - Envir Sc 2W03 |  - Geog 2UJ3 |  - __________ |  - __________ |
|      | 3 units | | |
|      |  - Geog 2GI3 | | |

| III  | 3 units from: | 6 units from | 3 units | 9 units |
|      |  - Geog 3ME3 |  - Envir Sc 3B03 |  - Geog 3MB3 |  - __________ |
|      |  - Geog 3MF3 |  - Envir Sc 3CC3 | |  - __________ |
|      | |  - Envir Sc 3U03 | |  - __________ |
|      | |  - Envir Sc 3W03 | |  - __________ |

| IV   | 6 units from: | 3-6 units from | 6 units from Level IV Geog | 12-15 units |
|      |  - Envir Sc 4BB3 (or 4B03) |  - Earth Sc 4MS3 |  - Geog 4ET3 |  - __________ |
|      |  - Envir Sc 4C03 |  - Geog 4MS3 |  - Geog 4MT6 |  - __________ |
|      |  - Envir Sc 4G03 | | |  - __________ |
|      |  - Envir Sc 4W03 | | |  - __________ |

Please note: No more than 48 units may be Level I courses

Please note that the Level 1 Science Course List excludes the following courses:

- BIOLOGY 1P03
- CHEM 1R03
- MATH 1F03
- MATH 1K03
- STATS 1L01

Level II
- EARTH SC 2K03
- ENVIR SC 2B03
- ENVIR SC 2C03
- ENVIR SC 2E03
- ENVIR SC 2F03 (2003)
- ENVIR SC 2T03 (2003)
- ENVIR SC 2W03
- GEOG 2E13
- GEOG 2H13
- GEOG 2L13
- GEOG 2M13
- GEOG 2R13
- GEOG 2T13
- GEOG 2U13

Level III
- EARTH SC 3K03
- EARTH SC 3R03
- EARTH SC 3T03
- EARTH SC 3Z03
- EARTH SC 3A03
- EARTH SC 3C03
- ENVIR SC 3B03
- ENVIR SC 3E03
- ENVIR SC 3E13
- ENVIR SC 3F03
- ENVIR SC 3G03
- ENVIR SC 3H03
- ENVIR SC 3J03
- ENVIR SC 3K03
- ENVIR SC 3L03
- ENVIR SC 3M03
- ENVIR SC 3N03
- ENVIR SC 3O03
- ENVIR SC 3P03
- ENVIR SC 3Q03
- ENVIR SC 3R03
- ENVIR SC 3S03
- ENVIR SC 3U03

Level IV
- EARTH SC 4T03
- EARTH SC 4V03
- EARTH SC 4W03
- ENVR SC 4B03 (4B03)
- ENVR SC 4C03
- ENVR SC 4D03
- ENVR SC 4E03
- ENVR SC 4F03
- ENVR SC 4G03
- ENVR SC 4H03
- ENVR SC 4I03
- ENVR SC 4J03
- ENVR SC 4K03
- ENVR SC 4L03
- ENVR SC 4M03
- ENVR SC 4N03
- ENVR SC 4O03
- ENVR SC 4P03
- ENVR SC 4Q03
- ENVR SC 4R03
- ENVR SC 4S03
- ENVR SC 4T03
- ENVR SC 4U03
- ENVR SC 4V03
- ENVR SC 4W03
- ENVR SC 4X03
- ENVR SC 4Y03
- ENVR SC 4Z03
- ENVR SC 4A03
Notes Applicable to all Honours Earth and Environmental Sciences Programs
Earth and Environmental Sciences at McMaster encompass five major themes: Aqueous Environmental Geochemistry, Earth Sciences, Environmental Hydrology and Climate, Environmental Policy, GIS and Spatial Analysis. It should be noted that each thematic area has its own sequence of courses and prerequisites (see the Course Listings section in the Undergraduate Calendar). Students may elect to take some or all of the upper level courses from different areas. In addition, there is a set of courses encompassing research design, field work, internships, and the senior thesis or review paper.

AQUEOUS ENVIRONMENTAL GEOCHEMISTRY
EARTH SC 2003, 3CC3, 3L03, 3O03, 3T03, 4CC3, 4FE3, 4M03, 4N03

EARTH SCIENCES
EARTH SC 2E03, 2I03, 2K03, 2M03, 2T03, 3E03, 3K03, 3P03, 3QQ3, 3SR3, 3T03, 3V03, 3Z03, 4E03, 4G03, 4J03, 4T03, 4V03

ENVIRONMENTAL HYDROLOGY AND CLIMATE
EARTH SC 2B03, 2C03, 2W03, 3B03, 3CC3, 3N03, 3U03, 3W03, 4BB3, 4C03, 4CC3, 4W03, 4WB3

ENVIRONMENTAL POLICY
EARTH SC 2EI3, 4EA3; ENVIR SC 3EE3, 4HH3; GEOG 3EC3

GEOGRAPHIC INFORMATION SYSTEMS (G.I.S) AND SPATIAL ANALYSIS
EARTH SC 2GI3, 3GI3, 3SR3, 3GV3, 4GA3; GEOG 4GS3, 4GT3

Students aiming to meet the academic requirements for professional registration of Geoscientists in Ontario can find additional information on these requirements on the website:
http://www.science.mcmaster.ca/geo/undergraduate/programs/science.html. Students are encouraged to consult with the academic advisor in the School of Geography and Earth Sciences to ensure proper selection of courses for professional registration.

ADMISSION NOTES
1. Two of ENVIR SC 1A03, 1B03, 1C03, 1G03 must be completed by the end of Level II.
2. GEOG 1HA3 and 1HB3 must be completed by the end of Level II.

ADMISSION
Completion of any Level 1 program with a cumulative average of at least 6.0 including:
3 units from ENVIR SC 1A03, 1B03, 1G03 with a grade of at least C+ (See Admission Note 1 above)

NOTE: Students who have satisfied all above admission criteria and have a Cumulative Average between 5.5 and 5.9 will be admitted to the program, on Program Probation. Students may be on Program Probation only once. Eligibility to continue in the program will require a Cumulative Average of at least 6.0 at the next academic review.

See front for complete set of course requirements

PROGRAM NOTES
1. Students are strongly encouraged to check prerequisites for upper-level Geog or Earth Sc courses. Chemistry, Mathematics, and Physics prerequisites exist in upper-level Earth Sciences courses. The prerequisites should be considered when selecting your courses.
2. All students are strongly encouraged to meet with an academic advisor in the School of Geography and Earth Sciences to discuss program requirements and course selections, particularly prior to the start of Level III.
3. All students are strongly encouraged to meet with an academic advisor in the School of Geography and Earth Sciences to discuss which course is most appropriate between EARTH SC 3RD3 and GEOG 3MA3, based on their area of interest.
4. The field components of GEOG 3ME3 and 3MF3 are normally taken outside of the normal term. Details are announced in March. All students are strongly encouraged to meet with an academic advisor in the School of Geography and Earth Sciences to discuss which course is most appropriate, based on their field of interest.
5. Students are strongly encouraged to complete all Level 1 ENVIR SC courses (ENVIR SC 1A03, 1B03, 1G03).
6. Students are strongly encouraged to take as an elective at Level II one of GEOG 2EI3, 2HI3, 2LE3, 2TC3, 2TS3.
7. Students are not required but may combine courses in Geography and Environmental Sciences into major themes matching their interests, including:
   Human Health and the Environment
   ENVIR SC 2L03, 3M03, 3O03, 4EA3, 4WB3; GEOG 2HI3, 3HH3, 3HP3, 4HH3
   Transportation and the Environment
   ENVIR SC 3GV3, 4GA3; GEOG 3LA3, 3LT3, 4LP3
   Urban Systems and Sustainability
   ENVIR SC 2EI3, 3EE3; GEOG 2UI3, 3ER3, 3UP3, 3UR3, 4UT3