<table>
<thead>
<tr>
<th>Year</th>
<th>Core</th>
<th>Additional</th>
<th>Electives</th>
</tr>
</thead>
</table>
| I    | 9 Units from:  
  - Math 1A03  
  - Math 1LS3  
  - Math 1M03  
  - Envir Sc 1C03  
  - Earth Sc 1G03  
  - Geog 1HA3  
  - Geog 1HB3  
 | 3 Units from:  
  - Math 1A03  
  - Math 1LS3  
  - Math 1M03  
  - Envir Sc 1C03  
  - Earth Sc 1G03  
  - Geog 1HA3  
  - Geog 1HB3  
 | 12 units from Level 1 electives |
| II   | 6 units from:  
  - Envir Sc 2B03  
  - Envir Sc 2C03  
  - Earth Sc 2E03  
  - Envir Sc 2W03  
 | 3 units from:  
  - Geog 2HI3  
  - Geog 2G13  
 | 9-15 units; if not completed:  
  - __________________ |
| III  | 3 units from:  
  - Envir Sc 3ME3  
  - Geog 3MF3  
 | 6 units from Level III Envir Sc or Earth Sc:  
  - __________________ 
  - __________________ 
 | 9 units |
| IV   | 6 units from Level IV Envir Sc or Earth Sc:  
  - __________________  
  - __________________  
 | 3-6 units from:  
  - Envir Sc 4MI3  
  - Geog 4ET3  
  - Geog 4MS3  
  - Geog 4MT6  
 | 6 units from Level IV Geog  
  - __________________  
  - __________________  
 | 12-15 units |

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 3L01
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 3CC3, 4CC3, ENVIR SC 2Q03, 3O03, 4N03

EARTH SCIENCES
EARTH SC 2E03, 2FE3, 2K03, 2T03, 3E03, 3K03, 3Z03, 4G03, 4J03, 4P03, 4T03, 4VV3, GEOG 3SR3

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

ENVIRONMENTAL POLICY
GEOG 2EI3, 2EK3, 3EC3, 3EE3, 3EG3, 4EA3, 4ET3, 4HH3

GEOGRAPHIC INFORMATION SYSTEMS (G.I.S) AND SPATIAL ANALYSIS
GEOG 2GI3, 2GI3, 3GV3, 3SR3, 4GA3, 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: https://www.science.mcmaster.ca/geo/undergraduate.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 1C03 and EARTH SC 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 Grade Point Average of at least 5.0 including:
3 units from ENVIR SC 1C03, EARTH SC 1G03 with a grade of at least C+ (See Admission Note 1 above)
3 units from GEOG 1HA3, 1HB3 with a grade of at least C+ (See Admission Note 2 above)

NOTE: Students who have satisfied all above admission criteria and have a Grade Point Average between 4.5 and 4.9 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 Grade Point Average of at least 5.0 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 which course is most appropriate between EARTH SC 3RD3 and GEOG 3MA3, based on their area of interest.
3. The field components of EARTH SC 2FE3, ENVIR SC 3ME3 and GEOG 3MF3 are normally taken outside of the normal term. Details are announced IN December (EARTH SC 2FE3) or March (ENVIR SC 3ME3, GEOG 3MF3). 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.
4. Students are strongly encouraged to complete both Level 1 ENVIR SC courses (ENVIR SC 1C03, EARTH SC 1G03).
5. 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
   EARTH SC 4WB3, ENVIR SC 2Q03, 3O03, GEOG 2HI3, 3HP3, 4EA3, 4HH3
   Transportation and the Environment
   GEOG 3GV3, 3LA3, 3LT3, 4GA3, 4LP3
   Urban Systems and Sustainability
   GEOG 2EI3, 2UJ3, 3EE3, 3ER3, 3UP3, 3UR3, 4US3