HONOURS BSC IN PHYSICAL GEOGRAPHY

The physical geography program examines the interaction between humans and nature, and allows students to see how this interaction modifies our landscape, region, planet and environment. Students learn to understand climate change and resource management while acquiring practical skills in geomorphology, geology, physical geography and human geography. They are also taught aerial photography, remote sensing, computer science, image treatment and geographic information systems (GIS). Graduates of the program can earn professional certification in environmental geoscience from the Association of Geoscientists of Ontario.

This program is offered in English and in French.

Program Requirements

The extended French stream is available with this program.

Requirements for this program have been modified. Please consult the 2015-2016 calendars (http://www.uottawa.ca/academic/info/regist/1516/calendars) for the previous requirements.

This program satisfies the academic requirements of the Association of Professional Geoscientists of Ontario.

This program is currently under revision. At this time, we are not accepting applications.

BIO 1130  Introduction to Organismal Biology  3 Units
CHM 1311  Principles of Chemistry  3 Units
CHM 1321  Organic Chemistry I  3 Units
3 course units from:  3 Units
   ENG 1100  Workshop in Essay Writing
   ENG 1112  Technical Report Writing
   GEG 1301  The Physical Environment  3 Units
   GEO 1111  Introduction to Earth Systems  3 Units
   GEO 1115  Introduction to Earth Materials  3 Units
   MAT 1330  Calculus for the Life Sciences I  3 Units
   MAT 1332  Calculus for the Life Sciences II  3 Units
   PHY 1121  Fundamentals of Physics I  3 Units
   PHY 1122  Fundamentals of Physics II  3 Units
   GEG 2301  Geomorphology  3 Units
   GEG 2304  Climatology  3 Units
   GEG 2320  Introduction to Geomatics  3 Units
3 course units from:  3 Units
   GEO 2334  Quaternary Geology and Climate Change
   GEO 3306  Quaternary Paleogeography
   MAT 2379  Introduction to Biostatistics  3 Units
   GEO 3102  Hydrology  3 Units
   GEO 3105  Remote Sensing  3 Units
   GEO 4010  Directed Research in Physical Geography  6 Units
   GEO 4921  Physical Geography Field Camp  3 Units
12 optional course units from:  12 Units
   GEO 2163  Introduction to Mineralogy
   GEO 2164  Analytical Methods in Mineralogy
   GEO 2165  Stratigraphy and Sedimentation
   GEO 2307  Environmental Geology
   GEO 2321  Structural Geology and Tectonics
   GEO 3163  Igneous Petrology
   GEO 3166  Siliciclastic Sedimentology
   GEO 3342  Introduction to Hydrogeology
   GEO 3352  Geological Data Analysis
   GEO 3382  Geochemistry
   GEO 4341  Advanced Physical Hydrogeology
   GEO 4342  Natural and Contaminant Groundwater Geochemistry

GEO 4354  Quantitative Analysis in Geology 12 Units
9 optional course units in geography (GEG) at the 4000 level from the list of optional courses  9 Units
9 optional course units in geography (GEG) other than those listed in the list of optional courses  9 Units
15 elective course units  15 Units
Total:  120 Units

Note(s)

1  GEO 4000 and GEO 4001 cannot be counted towards this requirement.

List of Optional Courses

GEG 3101  Advanced Geomorphology  3 Units
GEG 3114  Biogeography  3 Units
GEG 3300  Selected Topics in Physical Geography  3 Units
GEG 3302  Natural Resource and Environmental Management  3 Units
GEG 3312  Advanced GIS  3 Units
GEG 4000  Field Research  6 Units
GEG 4001  Northern Field Research  6 Units
GEG 4100  Glaciology  3 Units
GEG 4101  Permafrost Environments  3 Units
GEG 4118  Environmental Impact Assessment  3 Units
GEG 4120  GIS and Numerical Spatial Analysis  3 Units
GEG 4121  Applications of GIS in Natural and Social Sciences  3 Units
GEG 4126  Seminar in Physical Geography  3 Units
GEG 4129  Global Climate Change  3 Units

Note(s)

1  This course requires a prerequisite which is not included in the program.