

ENVIRONMENTAL GEOSCIENCES AND TECHNICAL ELECTIVES

Below are answers to some FAQs about technical electives.

What is a technical elective?

A technical elective is a course that has mathematical, computational, field or laboratory science content. It is normally has a 300 or 400 level code. Ideally it will support other courses you have or are taking in your ENGS degree program, particularly the theme you are following. A technical elective should also provide you will skills that help you in career preparation and make you more competitive in the job market.

Is there a list of technical electives?

Until 2008 we did not produce a list of technical electives, but due to many request from students we decided to make a list (see below). This list is not comprehensive; it shows the current courses offered by the College of Geosciences which most closely fit a technical elective as defined above. Other courses from the College of Geosciences may be considered, and there are courses offered by other colleges that fit the definition.

Code	Course title	Hours	Prerequisites
GEOL309	Introduction to Geological Field Methods	3	GEOL 101 or...
GEOL352	GPS in the Geosciences	2	None
GEO435	Methods of Geophysical Exploration	4	GEOL309, MATH251, PHYS219
GEO470	Computational methods in Geology and Geophysics	3	GEOL101 or..., MATH308
GEO332	Thematic Cartography	3	None
GEO361	Remote Sensing in the Geosciences	4	GEO332
GEO390	Principles of GIS	3	None
GEO398	Interpretation of Aerial Photographs	3	MATH102, one of ...incl GEOG 203, GEOL 101

GEOG450	Field Geography	3	None
GEOG462	Advanced GIS Analysis for Natural Resources Management	3	FRSC461 or equivalent
GEOG475	Advanced Topics in GIS	4	GEOG390
ATMO352	Severe Weather and Mesoscale Forecasting	3	MATH172
ATMO411	Satellite Meteorology and Remote Sensing	3	ATMO324, MATH 308
ATMO435	Numerical Weather Prediction	3	MATH308, ATMO336

Can I select courses other than those listed above?

Yes, we do not want to constrain you to the list of courses. Select other courses in consultation with the academic or faculty advisor. You will need to complete a course substitution form and submit it for approval through the Academic Advisor.

Can I take courses outside the College of Geosciences?

Yes there is no restriction on which courses you select from. Though we hope you'll find many of the College of Geosciences' courses suit your needs.