

# Bachelor of Science – Environmental Science 2026-27

**IMPORTANT:** This guide is designed by specific course prerequisites and scheduling patterns. Many courses run in 1 semester per year only, some senior courses alternate years, availability is limited.

To avoid delays, students should closely follow the guide when planning ENVS, CHEM, ECOL, and GEOL courses. Taking courses out of sequence may create progression challenges and impact your timeline to completion.

✓	YEAR ONE - Fall	✓	YEAR ONE - Winter
	ENVS 2100 - Intro to Environmental Science		CHEM 1202 - General Chemistry – Intro to Quantitative Chemistry
	GEOL 1201 - The Dynamic Earth		ECOL 1111 - Terrestrial Ecology
	MATH 1185 or 1200 - Calculus with Applications OR Calculus for Scientists I		ENVS 1105 - Data Processing and Statistics
	GNED Foundation Cluster 1: one of GNED 1101 or 1103		GNED Foundation Cluster 2: one of GNED 1201, 1202, or 1203
	GNED Foundation Cluster 4: one of GNED 1401, 1403 or 1404		GNED Foundation Cluster 3: one of GNED 1301, 1302, or 1303

✓	YEAR TWO - Fall	✓	YEAR TWO - Winter
	ECOL 2219 – Aquatic Ecology		CHEM 2157 – Industrial Organic Chemistry
	ENVS 2203 – Introduction to Soil Science		ENVS 2215 – Applied Instrumentation
	ENVS 2221 – Water Pollution and Surface Water Analysis		MATH 1203 – Linear Algebra for Scientists
	ENVS 1111 – Professional Development: Health & Safety		GNED Tier 2 Cluster 3: Recommended ECON 1101 (For AIA)
	GNED Tier 2 Cluster 2		GNED Tier 2 Cluster 4: Recommended SPCH 2001 (For AIA)
YEAR TWO – Spring/Summer			
	ENVS 2020 – Work Experience I		

✓	YEAR THREE - Fall	✓	YEAR THREE - Winter
	ECOL 2201 – Plant Survey and Classification		ENVS 3323 – Watershed Management
	ENVS 3305 – Hydrology		ENVS 3335 – Issues in Environmental Assessment
	ENVS 3307 – Air Pollution Monitoring		MGMT 3269 – Project Management OR LSCM 3407 – Business Negotiations/Project Management
	ENVS 3333 – Ground Water Contamination		Senior Elective: See Recommended (For AIA)
	GNED Tier 3: Recommended GEOG 2553 (For AIA)		Senior Elective: See Recommended (For AIA)
YEAR THREE – Spring/Summer			
	ENVS 3020 – Work Experience II		

✓	YEAR FOUR - Fall	✓	YEAR FOUR - Winter
	ENVS 4406 – Soil Genesis and Land Use		ENVS 4405 – Air Quality
	ENVS 4431 – Waste Management		ENVS 4419 – Regulatory Management
	ENVS 4441 – Site System Remediation Design		ENVS 4201 – Environmental Research Methods & Projects
	GNED Tier 3: Recommended NTSC 3301 (For AIA)		Senior Elective: See Recommended (For AIA)
	GNED Tier 3:		Senior Elective: See Recommended (For AIA)

## Recommended Senior Electives for AIA Requirements:

ENVS 3303 – Sustainability Assessment and Reporting  
 ENVS 3336 – Indigenous & Stakeholder Consultation  
 ENVS 4407 – Pollution Prevention: Toward Zero Emissions  
 ENVS 4421 – Environment Resource Management

## PLEASE READ:

Prerequisites and course descriptions can be found in the Academic Calendar under the 'courses' link by visiting:  
<https://catalog.mtroyal.ca/>

## **Post-Graduation Professional Designations:**

Mount Royal's B.Sc. in Environmental Science graduates are eligible to apply to register for either the Agrologist-in-Training (AIA/P.Ag) and/or the Professional Biologist in Training (ASPB/P.Biol). Both organizations have approved MRU courses. This program planning guide has been designed with the Professional Agrologist designation in mind, see recommended courses throughout guide.

*Any student wishing to pursue either Professional Designation should consult their program-assigned Academic Advisor or the Environmental Science Program Coordinator for more information.*

**General Education:** General Education approved courses, otherwise known as "GNED requirements" are designed to give you a well-rounded knowledge base and are organized into 4 thematic clusters. Each Cluster has 3 levels; tier 1 (foundation), tier 2 and tier 3.

Cluster 1: Numeracy & Scientific Literacy  
 Cluster 2: Values, beliefs & Identity  
 Cluster 3: Community & Society  
 Cluster 4: Communication

Students must take a foundation level from each of the four clusters, three tier 2 GNEDs (one from each of cluster 2, 3, and 4), and a total of three tier 3 GNEDs from at least two clusters, for a total of 10 GNED courses. For more information and a list of GNED courses, visit [mru.ca/gned](http://mru.ca/gned) and click 'courses' on the left-hand navigation

**Junior courses** are courses at the 1000 level. Students are allowed a maximum of 16 junior courses.

**Electives:** an elective is any three-credit course. It is advised that students select senior level electives wherever possible to avoid exceeding the 16 junior course limit.

**Advising Plan:** Students are strongly advised to follow the progression of classes and course load as indicated. Deviation from the recommended course pattern may result in scheduling conflicts or a delay in graduation.

This document is only intended to be a guide for students and should be used together with the Mount Royal University Academic Calendar which states academic policies and degree requirements. Be sure to consult with your Academic Advisor to confirm graduation requirements or if you have any questions.