

Bachelor of Science – Environmental Science 2025-26

IMPORTANT NOTE:

The Environmental Science program planning guide is heavily designed with prerequisites already in mind. Due to the program being a smaller intake at this time, each 'core' course has limited offerings per academic year.

To ensure your program progression path is as smooth as possible, it is highly recommended that students follow this guide when planning their ENVS, CHEM, ECOL, and GEOL courses. Taking these courses out of sequence (early or late) will result in progression issues and effect the degree completion timeline.

✓	YEAR ONE - Fall	✓	YEAR ONE - Winter
	CHEM 1202 - General Chemistry – Introduction to Quantitative Chemistry		ECOL 1111 - Terrestrial Ecology
	GEOL 1101 - The Dynamic Earth		ENVS 1105 - Data Processing and Statistics
	MATH 1185 or 1200 - Calculus with Applications OR Calculus for Scientists I		ENVS 2100 - Introduction to Environmental Science (pre-reg GNEED 1101 or 1103)
	GNEED Foundation Cluster 1: one of GNEED 1101 or 1103		GNEED Foundation Cluster 2: one of GNEED 1201, 1202, or 1203
	GNEED Foundation Cluster 4: one of GNEED 1401, 1403 or 1404		GNEED Foundation Cluster 3: one of GNEED 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 of the Environment Industry		GNEED Tier 2 Cluster 3: Recommended ECON 1101 (For AIA)
	GNEED Tier 2 Cluster 2		GNEED 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 – Soil 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)
	GNEED 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
	GNEED Tier 3: Recommended NTSC 3301 (For AIA)		Senior Elective: See Recommended (For AIA)
	GNEED Tier 3:		Senior Elective: See Recommended (For AIA)

Recommended Senior Electives for AIA Requirements:

ENVS 3303 – Life Cycle Assessment
ENVS 3336 – Indigenous & Stakeholder Consultation
ENVS 4407 – Pollution Prevention
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 "GNEED 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 GNEEDs (one from each of cluster 2, 3, and 4), and a total of three tier 3 GNEEDs from at least two clusters, for a total of 10 GNEED courses. For more information and a list of GNEED courses, visit 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 sixteen junior course limits.

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.