

# Bachelor of Science - Environmental Science 2023-24

✓ 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-req GNEC 1101 or 1103)
	GNEC Foundation Cluster 1: one of GNEC 1101 or 1103		GNEC Foundation Cluster 2: one of GNEC 1201, 1202, or 1203
	GNEC Foundation Cluster 4: one of GNEC 1401, 1403 or 1404		GNEC Foundation Cluster 3: one of GNEC 1301, 1303, or 1304

Many courses are prerequisites for upper year courses. Check prerequisites at <http://catalog.mtroyal.ca/>

✓ 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		GNEC Tier 2 Cluster 3: Recommend ECON 1101 (For AIA)
	GNEC Tier 2 Cluster 2		GNEC Tier 2 Cluster 4: Recommend 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 with Environmental Assessment
	ENVS 3307 – Air Pollution Monitoring		MGMT 3269 – Project Management
	ENVS 3333 – Ground Water Contamination		GNEC Tier 3: Recommend GEOG 2553 (For AIA)
	Senior Elective: See Recommended (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 – Management of Residuals		ENVS 4419 – Regulatory Management
	ENVS 4441 – SITE System Remediation and Design		ENVS 4201 – Environmental Research Methods
	GNEC Tier 3: Recommend NTSC 3301 (For AIA)		GNEC Tier 3: Recommend MGMT 4407 (For AIA)
	Senior Elective: See Recommended (For AIA)		Senior Elective: See Recommended (For AIA)

\*The *Fall/Winter* notations indicate when you should be planning to take core courses. Certain core courses may have prerequisites that need to be completed in a particular sequence to avoid delays in graduation. In addition, some courses are only offered in one semester. If there is no notation, this course should be completed in year two but may be offered in either semester. It is your responsibility to plan your schedule and make sure that you are meeting necessary requirements. Consider consulting your advisor if you are uncertain or require clarification.

## Recommended Senior electives for AIA requirements:

ENVS 3303 - Life Cycle Assessment  
ENVS 4407 - Pollution Prevention  
ENVS 4421 - Environment Resource Management  
ENVS 3336 - Indigenous & Stakeholder Consultation

## PLEASE READ:

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

**Professional Agrologist designation:** Mount Royal's B.Sc. in Environmental Science is eligible for approval for registration with [the Agrology profession in Alberta](#). The program meets the National Educational Entrance Standard for the Agrology profession across Canada.

This program planning guide has been designed with the Professional Agrologist (P.Ag.) designation in mind, see *recommended courses throughout guide*

For more information about applying for registration as an Agrologist in Training, please contact the [Alberta Institute of Agrologists \(AIA\)](#) at [info@aia.ab.ca](mailto:info@aia.ab.ca) or by phone at 1-855-435-0606 (toll free)

**General Education:** General Education approved courses, otherwise known as "GNEC 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

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

**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.