

Bachelor of Science – Environmental Science 2020 - 21

STUDENT NAME:

STUDENT ID #:

ADMISSION YEAR/CATALOGUE YEAR:

YEAR ONE - FALL		
CHEM 1202 ^{FW}	General Chemistry – Intro to Quantitative Chemistry (FNS)	
MATH 1185 ^F (preferred) or 1200 ^{FW}	Calculus with Applications (preferred) OR Calculus for Scientists I (M/Stats)	
GEOL 1101 ^{FW}	Physical Geology (FNS)	
GNEED Foundation Cluster 1 ^{FW}	One of: GNEED 1101 or GNEED 1103 (required in Fall)	
GNEED Foundation Cluster 4 ^{FW}	One of: GNEED 1401 or GNEED 1404	
YEAR ONE - WINTER		
ECOL 1111 ^W	Terrestrial Ecology (IAC)	
ENVS 1105 ^W	Data processing and Statistics (M/Stats)	
ENVS 2100 ^W	Introduction to Environmental Science (pre-req GNEED 1101 or 1103)	
GNEED Foundation Cluster 3 ^{FW}	One of: GNEED 1301, 1302, 1303, or 1304	
GNEED Foundation Cluster 2 ^{FW}	One of: GNEED 1201, 1202, 1203*, or 1204 (* recommended as E/Comm)	
YEAR TWO - FALL		
ECOL 2219 ^F	Aquatic Ecology (IAC)	
ENVS 1111 ^F	Professional Development: Health and Safety of the Environment Industry	
ENVS 2221 ^F	Water Pollution and Surface Water Analysis (IAC)	
ENVS 2203 ^F	Introduction to Soil Science (IAC)	
GNEED Tier 2 Cluster 2 ^{FW}		
YEAR TWO - WINTER		
CHEM 2157 ^W	Industrial Organic Chemistry (FNS)	
ENVS 2215 ^W	Applied Instrumentation (FNS)	
MATH 1203 ^{FW}	Linear Algebra for Scientists and Engineers (M/Stats)	
GNEED Tier 2 Cluster 3 ^{FW}	(ECON 1101 recommended (ECON))	
GNEED Tier 2 Cluster 4 ^{FW}	(SPCH 2001 recommended (E/Comm))	
YEAR TWO - SPRING/ SUMMER		
ENVS 2020	Work Experience I	
YEAR THREE - FALL		
ECOL 2201 ^F	Plant Survey and Classification (IAC)	
ENVS 3305 ^F	Soil Hydrology (SAC)	
ENVS 3307 ^F	Air Pollution Monitoring (SAC)	
ENVS 3333 ^F	Ground Water Contamination (SAC)	
MGMT 3269 ^F /LSCM 3407 ^W	Project Management (FNS)	
YEAR THREE - WINTER		
ENVS 3323 ^W	Watershed Management (SAC)	
ENVS 3335 ^W	Issues in Environmental Assessment (SAC)	
GNEED Tier 3	(NTSC 3301 recommended (SAC))	
GNEED Tier 3	(GEOG 2553 recommended (IAC))	
Senior Elective		
YEAR THREE SPRING / SUMMER		
ENVS 3020	Work Experience II	
YEAR FOUR - FALL		
ENVS 4406 ^F	Soil Genesis and Land Use (SAC)	
ENVS 4431 ^F	Management of Residuals (SAC)	
ENVS 4441 ^F	Site System Remediation and Design (SAC)	
GNEED Tier 3	(MGMT 4407 (FNS) or ENVS 3336 are recommended)	
Senior Elective		
YEAR FOUR - WINTER		
ENVS 4405 ^W	Air Quality (SAC)	
ENVS 4419 ^W	Regulatory Management (SAC)	
ENVS 4201 ^W	Environmental Research Methods (SAC)	
Senior Elective		
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NOTE: This program planning guide has been designed with the P.Ag. designation in mind. The suggested courses in the guide are recommended so that you are able to meet the requirements to register for the P.Ag.-in-training designation upon graduation with the Alberta Institute of Agrology.

PLEASE READ:

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

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

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

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.

^F Indicates that the course runs in Fall semester only.

^W Indicates that the course runs in Winter semester only.

^{FW} Indicates that the course is offered in both Fall and Winter semester.

Professional Agrologist designation:

The following list of GNEED courses and senior electives have been approved by the AIA in order to be considered for the P.Ag. designation.

General education courses:

GNEED 1203 - Foundation Cluster 2 (E/Comm)

ECON 1101 - Tier 2 Cluster 3(ECON)

SPCH 2001 - Tier 2 Cluster 4 (E/Comm)

ENVS 3336 - Tier 3 Cluster 3 *encouraged*

GEOG 2553 - Tier 3 Cluster 1 (IAC)

MGMT 4407 - Tier 3 Cluster 3 (FNS)

NTSC 3301 - Tier 3 Cluster 1 (SAC)

Senior electives:

ENVS 3303 - Life Cycle Assessment ^W (SAC)

ENVS 4407 - Pollution Prevention ^W (SAC)

ENVS 4421 - Environment Resource

Management ^W (SAC)

AIA approved courses legend:

IAC-Introductory Agrology Courses (IAC+SAC=60 credits)

SAC-Senior Agrology Courses (min. 24 credits)

FNS-Foundational Natural Sciences (15 credits)

M/Stats-Mathematics or Statistics Courses (3 credits)

E/Comm-English or Communications Courses (3 credits)

ECON-Economics Courses (3 credits)

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.