

APPLIED EARTH & ENVIRONMENTAL STUDIES

View on YouTube (<https://www.youtube.com/watch?v=De1O9Mr58lo>)

Applied Earth & Environmental Studies is a one-year certificate program that emphasizes the practical application of earth and environmental studies.

Hands-on curriculum includes community-based projects and field-based studies, building valuable skills and knowledge that meet employment and career needs. Students gain the academic and applied skills relevant for entry-level employment in natural resource, mining and mineral exploration, tourism, outdoor adventure and environmental industries. For more information please contact the program coordinator, Gordon Weary (<https://www.coastmountaincollege.ca/about-cmtn/department-contacts/details/gordon-weary/>).

Specialized options in:

- Geostudies (27 Credits)
- Geosciences (33 Credits)

Earns you an **Applied Earth & Environmental Studies Certificate**

Apply to CMTN

Visit Apply to CMTN (<https://www.coastmountaincollege.ca/admissions/apply-to-cmtn/>) for an Admissions Checklist and to apply online.

Our Educational Advisors (<https://www.coastmountaincollege.ca/student-services/student-support/educational-advising/>) are here to help if you have any questions or need guidance along the way.

Dates and locations

Intake	Location
Fall 2023	Prince Rupert and Terrace
Winter 2024	Prince Rupert and Terrace

Field School (<https://www.coastmountaincollege.ca/programs/explore/field-schools/>) courses available in the spring and summer.

Study on a full or part-time basis. Some courses are available online (<https://coastmountaincollege.ca/programs/programs/>) and by teleconference.

Note: not all courses are offered at every campus. Speak with an Educational Advisor (<https://coastmountaincollege.ca/student-services/academic-support/educational-advising/>) for assistance with course selection.

Admission to an intake does not guarantee completion in 2 years.

View our 2018/2019 Planning Guide (<https://www.coastmountaincollege.ca/docs/default-source/program->

[forms/environmental-programs/environmental-programs-planning-guide-2018_19.pdf](https://www.coastmountaincollege.ca/docs/default-source/program-forms/environmental-programs/environmental-programs-planning-guide-2018_19.pdf))

Courses common to both options - Geostudies and Geosciences

Code	Title	Credits
3 credits from the following Biology, Geography or Oceanography courses:		3
BIOL 201	Invertebrate Zoology	
BIOL 203	Non-Vascular Plants & Fungi	
GEOG 207	Hydrology/Soils	
OCGY 209	Introduction to Biological Oceanography	
3 credits from the following English courses:		
ENGL 101	Introduction to Composition	3
or ENGL 151	Technical Writing I	
3 credits from the following Geography courses:		
GEOG 110	People and the Environment	3
or GEOG 150	Physical Geog I: Biogeography, Meteorology and Climatology	
3 credits from the following Geography or Geology courses:		
GEOG 160	Physical Geography II: Geology, Geomorphology and Soils	3
or GEOL 157	Intro to Northwest Geology	
3 credits from the following Geography or Oceanography courses:		
GEOG 203	Geomorphology	3
or OCGY 208	Intro Physical, Chemical and Geological Oceanography	
GEOG 204	Spatial Analysis and Geographic Information Systems (GIS)	3
3 credits of the following:		3
GEOG 1XX	Any course that is field-based with an applied component that is approved by the program coordinator	
MEFA 101	Applied Field Studies in Earth & Environmental Sciences *under development	

Geostudies course options (27 Credits)

Code	Title	Credits
3 credits of the following Anthropology, First nation Studies or Geography Courses:		3
ANTH 112	First Nations of B.C.	
ANTH 212	Cultural Resource Management	
FNST 1XX	Any First Nations Studies course	
GEOG 227	Ethnogeography of Northwest BC	
3 credits of the following:		3
EMAP 101	Environmental Monitoring Assistant Program	
RAP 101	Reclamation & Prospecting	



Field Based Elective Any other field-based course as approved by the program coordinator

Geoscience course options (33 Credits)

Code	Title	Credits
BIOL 101	Introductory Biology I - Cells, Diversity & Physiology	3
BIOL 102	Introductory Biology II - Genetics, Evolution & Ecology	3
3 credits of the following Biology or Geography Courses:		
BIOL 211	Principles of Ecology	3
or BIOL 191	Introduction to Ecology	
or GEOG 202	Geography of Ecosystems	
3 credits of the following Biology or Geography Courses:		
GEOG 201	Environmental Climatology ¹	3
or GEOG 210	Environments and Society	
or GEOG 112	Environments and Planning	

- Apply (<https://apply.educationplannerbc.ca/apply/complete-application/cmtn/>) direct to the University Credit Program
- Submit proof of English 12 or equivalent
- Once admitted, register in the courses required for this certificate

Course prerequisites include:

- Life Sciences 11
- Chemistry 11

The prerequisites for individual courses are outlined in the course descriptions. Students missing prerequisites may enrol in Career & College Preparation (CCP) (<https://coastmountaincollege.ca/program/career-college-preparation-ccp/>) upgrading courses while completing the program.

English proficiency is required for all students entering CMTN programs. Please visit our English Language Alternatives (<https://coastmountaincollege.ca/admissions/requirements/language-requirements/domestic-english-language-requirements/>) page to see how this requirement can be met.

Need help with the application process? Contact an Educational Advisor (<https://coastmountaincollege.ca/student-services/academic-support/educational-advising/>).

Fees	Domestic	International
Full-time	30 Credits	30 Credits
Tuition	\$3,084.90	\$13,111.20
Mandatory fees	\$235.50	\$285.38
Lab fees (17.16 per credit) ¹	\$51.48	\$51.48
Student Union fees ²	\$93.28	\$93.28

Health and Dental Insurance ^{4,5}	\$275.00	\$585.82
Total Tuition:	\$3,740.16	\$14,127.16
Books & supplies ²	\$2,000.00	\$2,000.00
Field School fees ³	\$900.00	\$900.00
Total:	\$6,640.16	\$17,027.16

Tuition and fees effective August 1, 2023 for the 2023/24 Academic Year.

¹Lab fees are mandatory. All associate degrees require a minimum of 3 credits in laboratory science, and students may take up to 42 lab credits.

²Costs are approximate and may vary depending on courses taken. Student union fees are term based.

³Field schools have additional costs between \$100 - \$900 per field school, depending on the location and the activities. Field schools are not a mandatory component of all associate degrees, however, students are strongly encouraged to attend a field school during the spring/summer semester. Associate Degrees specializing in Environmental Geoscience are encouraged to attend a minimum of two field schools. Field schools are subject to different deposit requirements and refund rules.

⁴The Coast Mountain Students Union (CMSU) is pleased to announce that Extended Health and Dental Insurance has been approved by student referendum held in March 2021. Additional information will be provided by CMSU July 2021, including details of the coverage and directions for the opt out process for students with equivalent coverage. For any inquiries about the plan or referendum, please contact Golnoosh Namazi, organiser@mycmsu.ca

⁵Basic Health insurance is mandatory for all international students. Health insurance costs will be charged every term until students provide proof of MSP.

Career opportunities

Students will gain both hands-on and theoretical skills to gain entry level employment, including:

- Various levels of Government
- Non-Governmental Organizations (NGOs)
- Mining and Mineral Exploration Industry
- Environmental Consulting Industry

