

The Collaborative Mining Engineering and Technology Diploma/ Degree Program

This is a unique opportunity to start a mining technology and engineering career that can bring you meaningful and rewarding employment in BC, Canada and beyond.



Mining is a cornerstone industry of many communities throughout BC and Canada, and it is a major contributor to our economy. Canada is recognized as a world leader in mineral exploration and mining, and our expertise is exported around the world to help discover, develop and operate mines.

As one of the largest users of high-technology equipment and applications, the mining industry requires practitioners who have the skills necessary to keep up with these advances. Virtually all technical jobs within mining and mineral exploration - including geology, engineering, mineral processing, environmental assessment and surveying - require post-secondary education.

Five post-secondary institutions across British Columbia are collaborating to offer the Mining Technology Diploma/Degree with support from the Centre of Training Excellence in Mining (CTEM).



College of New Caledonia



Program Description:

The Collaborative Mining Engineering and Technology Diploma /Degree Program provides students across British Columbia with a local and alternative pathway into Mineral Exploration and Mining Technology or Mining and Mineral Resource Engineering Programs at BCIT.

Students will begin their academic studies toward a technology diploma or engineering degree at their home institution before transferring to the full program at BCIT and studying in the Lower Mainland of British Columbia. Students will complete eight courses at the local institutions and will also have an opportunity to collaborate and network together through discussion forums and other online features when taking the online BCIT courses.

Four other institutions will deliver the program in collaboration with BCIT, and with the support of the BC Centre of Training Excellence in Mining (BC CTEM): College of New Caledonia (CNC), Northwest Community College (NWCC), Okanagan College (OC) and Thompson Rivers University (TRU).

The program offers:

- Registration into BCIT's Mining Engineering and Technology program
- Completion of the first year of the program near students' current residence
- Transfer to BCIT for the second year of the diploma program
- Opportunity to register in the Mining Engineering program (conditions apply; students will need to speak to academic advisors for more information)
- Program fees for the collaborative pathway are similar to the fees you would pay if you took the entire program at BCIT

Entrance Requirements:

Applicants must meet all of the following entrance requirements and will be accepted on a first qualified basis as long as space remains: English 12 (67%), for English 12 First Peoples, please contact your advisor to confirm requirements, Physics 11 (67%), Chemistry 11 (67%), Math - one of the following: Principles of Mathematics 12 (67%) or Pre-Calculus 12 (67%). If you have English 12 First Peoples you may qualify. Please contact program advisor.

BCIT and CNC course list for first year Mining programs:

Level 1, Fall Term (15 weeks)

Course Number	Course Name
CHEM 113	Introduction to Chemistry I
CSC 105	Introduction to Computers and Programming
ENGL 229	Professional Business and Technical Communication
MATH 195	Mathematics for Technologies
PHYS 105	General Physics I
MINE 1100	Introduction to the Minerals Industry
MINE 1101	Physical Geology
MINE 1107	Student Success

Level 2, Winter Term (15 weeks)

Course Number	Course Name
CHEM 114	Introduction to Chemistry II
MATH 101	Calculus I
PHYS 106	General Physics II
MINE 2080	Mineralogy and Petrology Theory
MINE 2105	Surface Mining and Blasting
MINE 2107	Exploration and Mine Safety
MINE 2109	CAD for Mining
SURV 1185	Surveying for Mining 1 & 2 Theory

Summer Term (2.5 weeks) Last 2.5 weeks of August (at BCIT Burnaby Campus)

Course Number	Course Name
SURV 1195	Surveying for Mining 1 & 2 Field Exercise
MINE 2090	Mineralogy and Petrology Laboratory

*The green courses are offered at CNC campus. The blue courses are BCIT online courses. The red courses are offered at BCIT Burnaby Campus.