



UBC Mining Engineering- Graduate Programs

November 20, 2025



THE UNIVERSITY OF BRITISH COLUMBIA

Mining Engineering
Faculty of Applied Science

UBC Mining Graduate Admissions Mining Team

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Programs
MENG and GCGMWM
Applicants and Students

Anne B
Graduate Student Support
MASC and PHD Applicants &
Students

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Graduate Student Advisor



Outline

- Location
- Canada is a Mining Country
- Vancouver is a Global Mining Hub
- Rankings
- UBC Mining
- Our People
- Our Facilities
- What we Research and Teach
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- Professional Masters
- Graduate Certificate
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- Contact Us



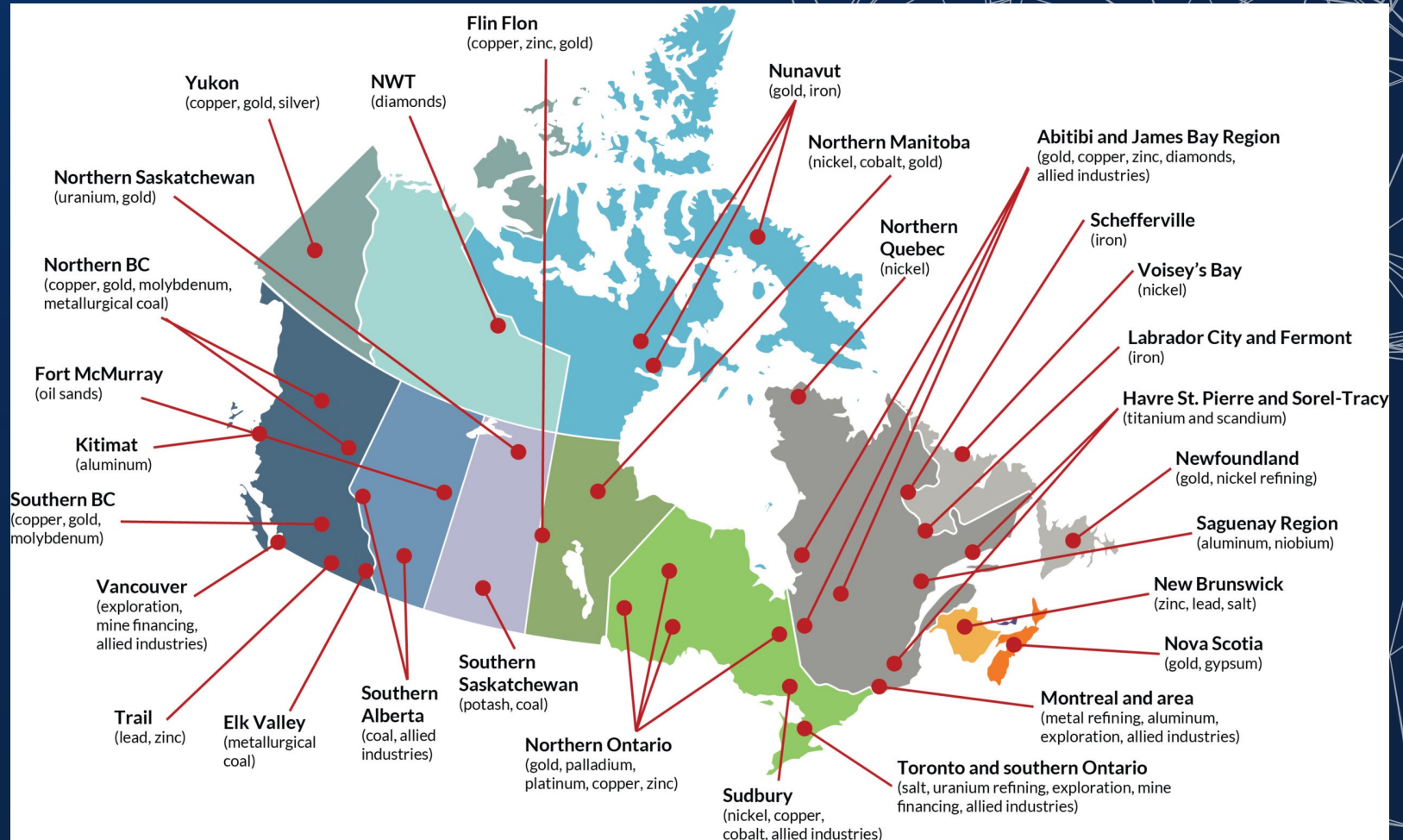
Location

- Continent: North America
- Country: Canada
- Province: British Columbia
- City: Vancouver



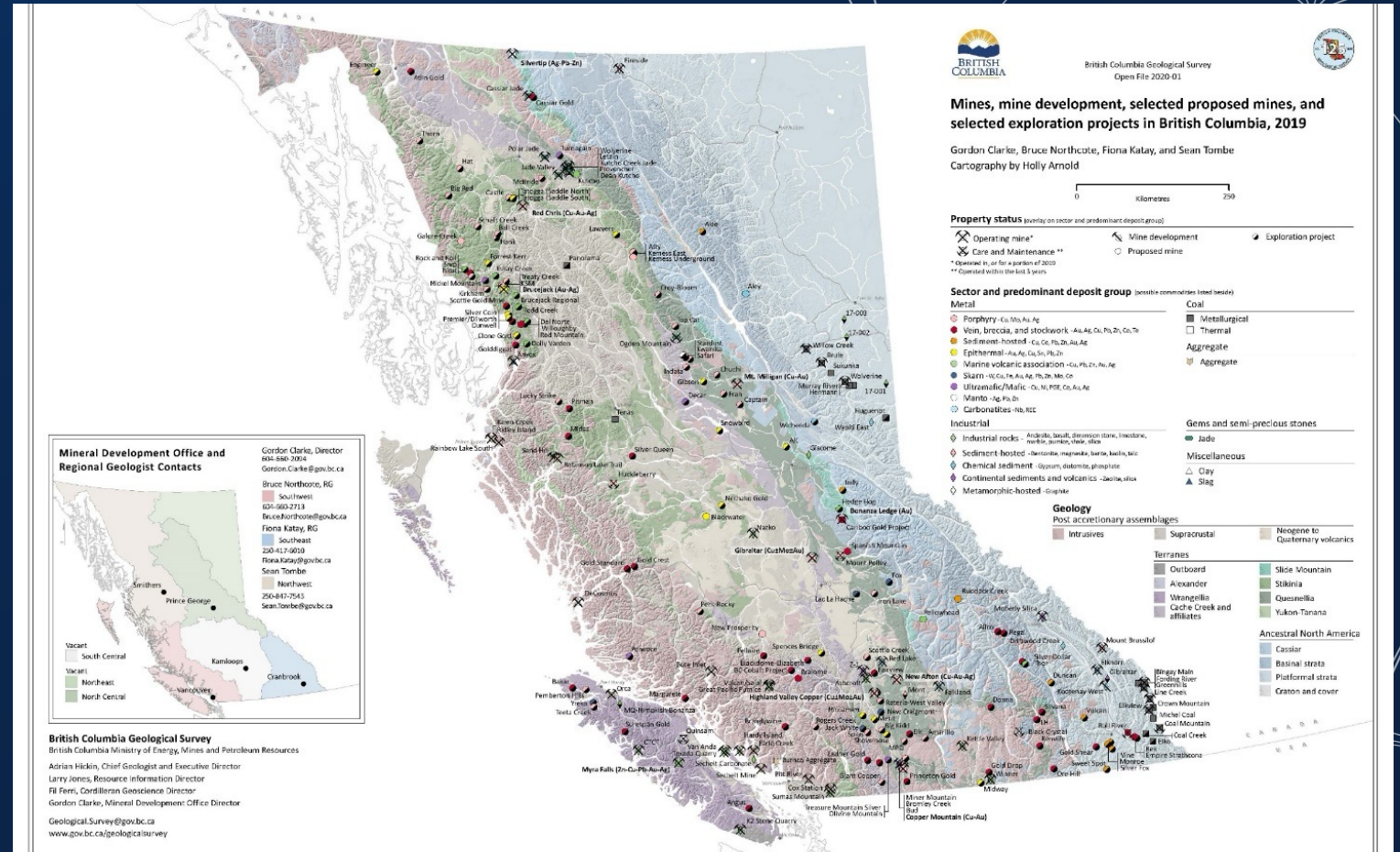
"Canada is a leading Mining Nation"

Visit the Government of Canada website to view the economic data



Vancouver is a Global Mining Hub

The city is a leading centre for mineral exploration, financing and related services. The city hosts over 800 junior and mid-tier mining companies making it the world's capital for this sector.



UBC is a top ranking University



	THE 2026	ARWU2025	ARWU 2024- Mining & Mineral Engineering	QS 2026	QS 2025 Mineral & Mining Engineering	EduRank 2025	EduRank Mining & Mineral Engineering
World	#45	#53	#26	#40	#9	#29	#10
North America	#23	#28	#2	#15	#3	#25	#2
Canada	#3	#2	#1	#3	#2	#2	#1

(THE- Times Higher Education; ARWU- Academic Ranking of World Universities aka Shanghai Ranking; QS- Quacquarelli Symonds)



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UBC Mining



1915: Department of Mining and Mineral Process Engineering founded

2005: Support from industry and matched by government (total \$15M)

“..towards the establishment of the Norman B. Keevil Institute of Mining Engineering at UBC, in order to help meet the human resources needs of the mining industry and boost Canada’s leadership as a global centre of mining expertise and technology.”

Minister Murray Coell, 2007, Ministry of Advanced Education



Our People

Full Professors



S. Dunbar



B. Klein



D. Elmo



M. Pawlik

Associate Professors



M. Holuszko



A. Madiseh



J. Steen

Assistant Professors



I. Miskovic



S. Miskovic



T. Welch



L. Torres-Cruz

Our Facilities



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Our Facilities



High-pressure grinding roll



Rock Engineering Lab



Our Facilities



Graduate Students' Study Areas

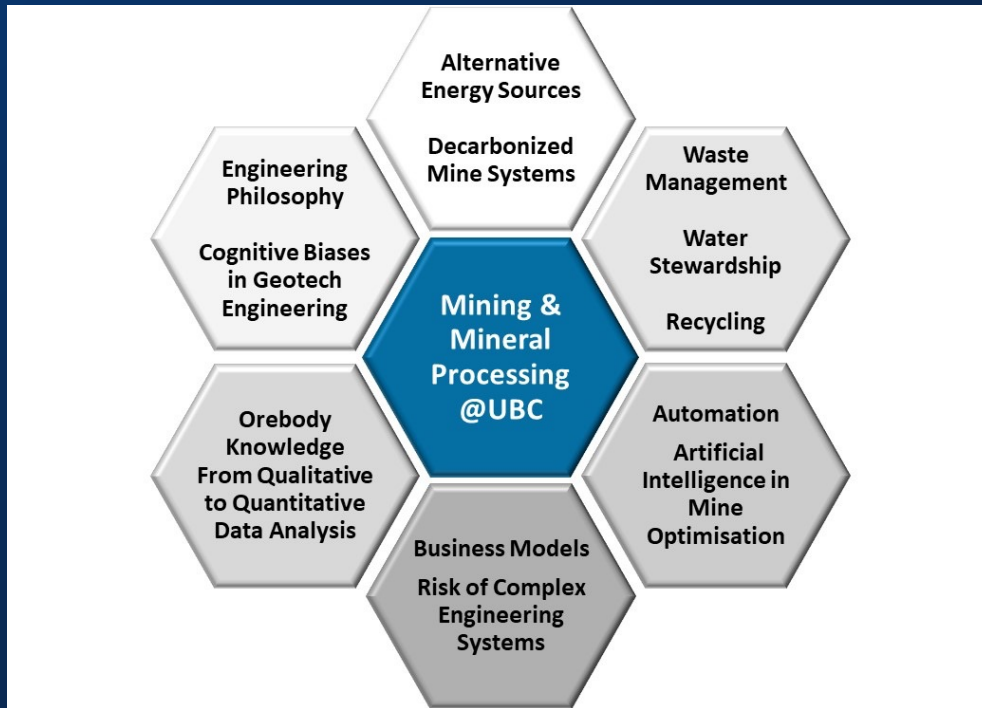


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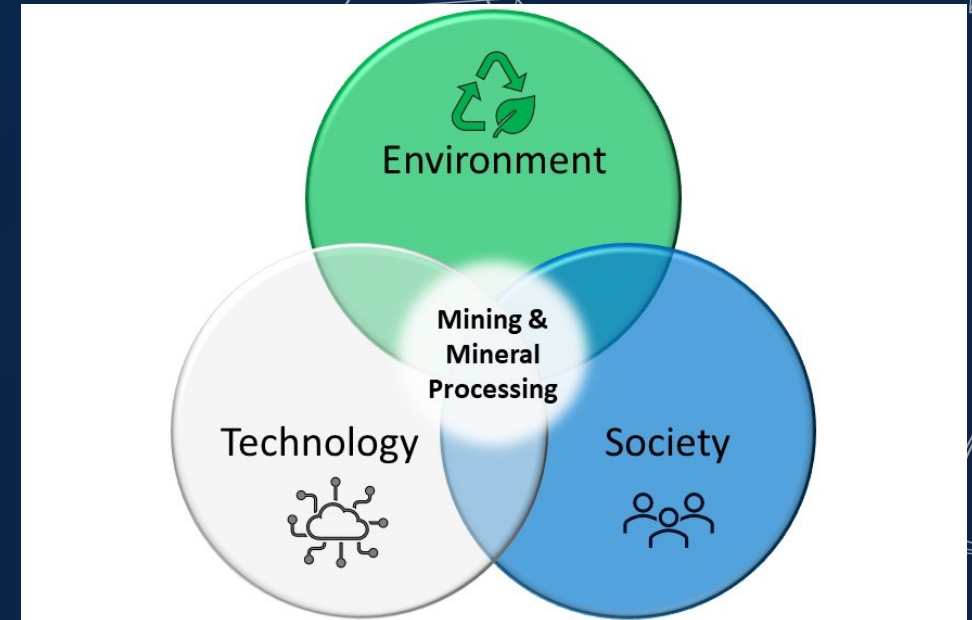
Mining Engineering
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What we Research & Teach

Our research themes are an integral part of what we teach.

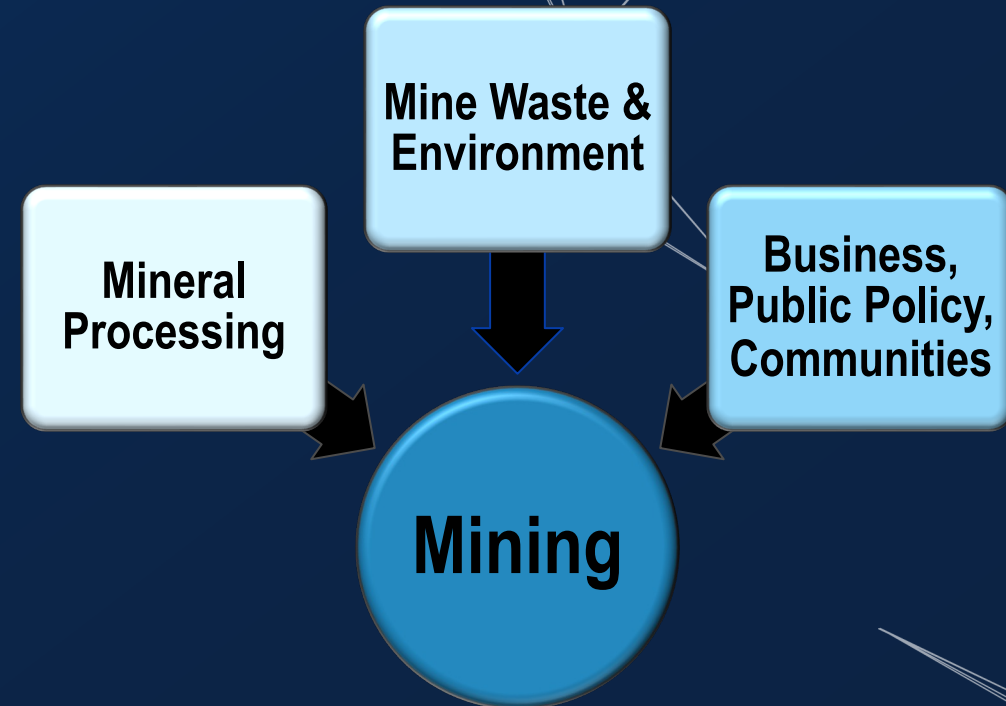


We want our students to learn how to find the right balance between the need to mine mineral resources and the need to minimise the environmental and social impact of mining.



Mining Engineering at UBC

- Multidisciplinary- incorporating mechanical, environmental, chemical, civil and geological engineering principles within a sustainable economic and social framework.
- Opportunities for industry employment and participation in research activity at working mines.



Academic Programs

- **Bachelor of Applied Science – BASC**
(completion in 4 years, co-op options)
- **Graduate Certificate in Global Mine Waste Management- GCGMWM**
(completion in 2 years, remote asynchronous with 2 week synchronous session/yr)
- **Master of Engineering – MEng**
(completion in 21 months, course-based, co-op options)
- **Master of Applied Science – MASc**
(completion in 2 years, research-based)
- **Doctor of Philosophy – PhD**
(completion in 4 years, research-based; admission with a research-based master's degree)

~218 currently enrolled
135 BASC, 37 MEng, 23 MASc, 23 PhD



Graduate Programs

Research Based Degrees:

- Master of Applied Science (MASC)
- Doctor of Philosophy (PHD)

Professional/ Course Based Degrees:

- Master of Engineering (MENG)
- Graduate Certificate in Global Mine Waste Management (GCGMWM)



Research Masters: Master of Applied Science (MASc)



2- 3 years



Coursework

18 Credits



Research
12 credit
Thesis



30 credits



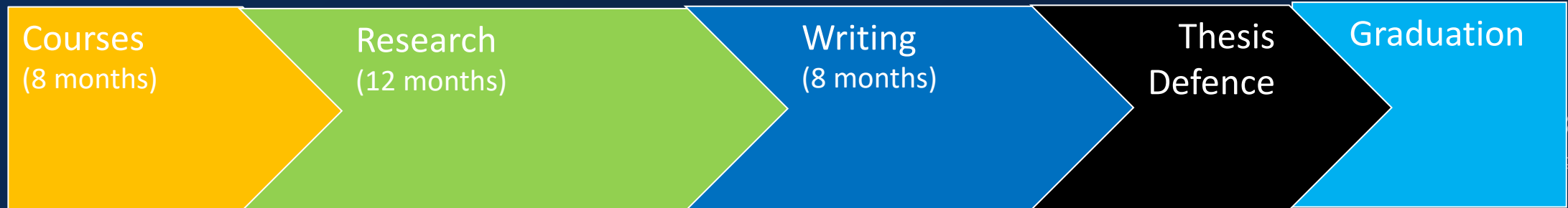
Supervisor
Required
To be admitted
a Faculty
Member must
be willing to
supervise you

Only 7-10
admitted per yr



Funding
TAships
(\$600/month)
Research
Assistantships
(\$2000/month)
Scholarships

Research Masters: Master of Applied Science (MASc)



Professional Masters: Master of Engineering (MEng)



12 to 24
months



Professional
Program



Coursework
30 credits



Cohort of 20-
25 admitted
each year



Applied
Learning-
Coop
Internship
Option



Orientation
Program
with
Fieldtrips



Funding
TAships
(\$600/month)
Paid Coop
Internship

Master of Engineering (MEng)

Specializations:

- Mining
- Mineral Processing
- Environment and Sustainability
- Mine Economics and Finance
- Mine Waste Management



Orientation
(1 month)

Courses
(4 months)

Co-op *
(8-12 months)

Courses
(8 months)

Graduation

* Coop is an option and there is no guarantee of an internship.



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Professional Certificate: Graduate Certificate in Global Mine Waste Management



2 years
Part-time
Remote



Professional
Program



Coursework
12 credits



Cohort of 10-15



Fieldtrip



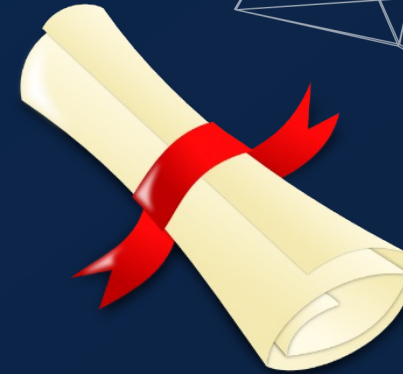
Remote,
asynchronous,
flexible learning

Graduate Certificate in Global Mine Waste Management

Year 1: 2 courses

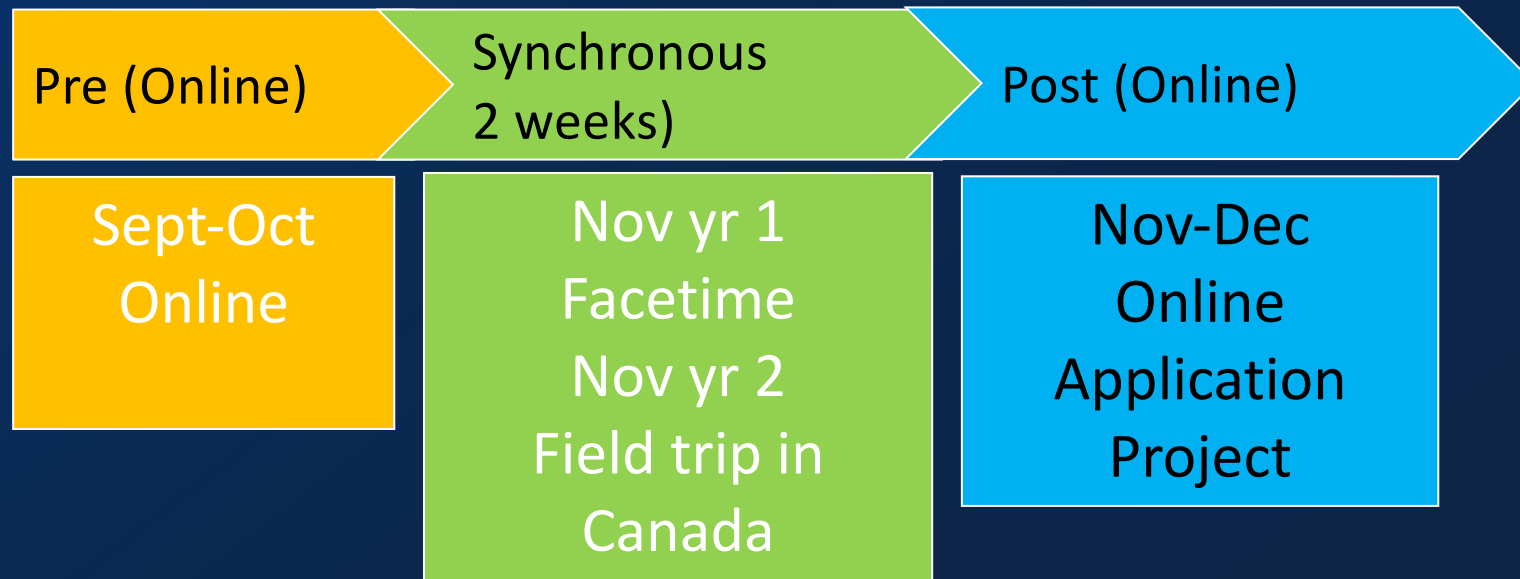


Year 2: 2 courses



Graduate Certificate in Global Mine Waste Management

Each pair of courses is set up like this...



Graduate Certificate in Global Mine Waste Management

**Certificate
Program**

“Ladders”

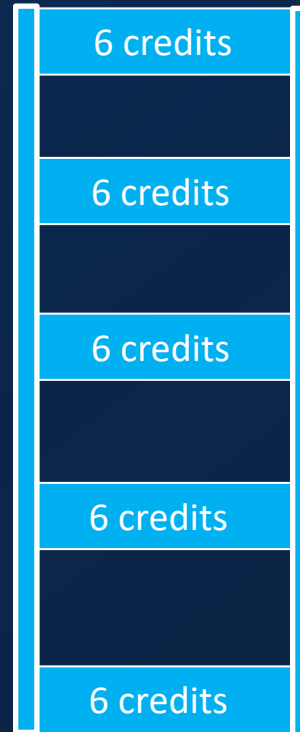
MEng, MAsC,

Year 2

2 courses
(6 credits)

Year 1

2 courses
(6 credits)



MEng Program Activities



Orientation (3 credits)

- Short Courses
- Activities
- Field Trips
- 3 credit hours

Academic term 1 (9 credits)

- Approximately 3 courses

Co-op Internship Option

- 8-12 Month Paid Internship

Academic terms 2 & 3 (18 credits)

- Approximately 6 courses

MEng Summer Fieldtrip



MEng Summer Fieldtrip



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MEng Winter Fieldtrip



MEng Winter Fieldtrip



MEng Program Activities



MEng Program Activities



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MEng Program Activities



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MEng Coop Internship

- Opportunity to do a paid internship with a Canadian Mining Company
- 4-12 month internship.
- Internship sandwiched between two terms of coursework.
- Constructive, relative, paid, technical engineering work with approved industry organizations.
- Salaries from \$3,000 to \$8,000/ CAD month, average \$5664.
- 95-100% success rate for students securing coops over the past 5 years.

Coop Employers

Barrick Gold
CNRL
Conuma Coal
De Beers Canada
Evolution Mining Operations Ltd.
Freeport-MacMoran
Glencore
Hudbay Minerals Inc.
Imperial Metals
Imperial Oil Resources Ltd.
Metso

Newcrest
New Gold
Newmont Corporation
Pan American Silver
Rio Tinto
SRK Consulting
Syncrude
Suncor Energy
Taseko Mines
Teck Metals Ltd.
Vale Inc.
Waldrop-TetraTech



Graduation



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Post-Graduate Employment Opportunities

- Canadian Mining Companies working all over the world.
- There is a worldwide shortage of engineers for the mining industry
- Mining is one of the safest industries in Canada
- High salaries - starting salaries range from US \$6,000 to US \$8,000 per month

With a Canadian Masters Degree, you can apply for a Post Graduate Work Permit and work for 3 years in Canada after graduation.

Check out MIHR (Mining Industry Human Resource Council) for Labour Market information: <https://mihr.ca>

MIHR Website:



MEng Program Cost

Tuition Fee	CAD \$8,788.25 ¹ per academic term (3) ~CAD \$ 26,364.75
Activity Fee	CAD \$7,140
IMED	CAD \$240
<u>Student Fees</u>	<u>~CAD \$1,460 per year</u>
Total	~CAD \$35,205

- Tuition paid in 3 installments
- Living expenses are \$1600 per month (room, utilities, health insurance and food), if you are willing to share accommodation.
- For coop terms, ~\$840/ term.

[1] tuition is reviewed annually. It typically increases by 3% a year.



MEng Scholarships

Future of Mining Award

- MEng Applicants are welcome to submit a paper on “The Future of Mining.”
- The papers will be judged by a panel of UBC professors.
- The winning paper will receive \$3000 toward student fees.
- Maximum Page Length – 5 pages
- Award Deadline – December 31 with a complete application package.

Entrance Awards

- There are a limited number of scholarships (~\$2000 each) for First Class Standing students.



MASc/ PHD Program Cost

	Payments per year	Min # of payments for program	# of payments usually required	Domestic (/payment)	International (/ payment)
MASC	3	3	6 (2 years)	\$1,875.34	\$3,294.66
PHD	3	6	12 (4 years)	\$1,875.34	\$3,294.66

- No activity fee charge for research students.
- Most International research students are eligible for the International Tuition Award. The award pays the difference between the international tuition rate and domestic tuition rate.
- PHD students receive a minimum \$24,000 funding package for each of the first four years of their degree

GCGMWM Program Cost

Years	Credits	International per-credit rate	Domestic per-credit rate	Total Tuition (Intl)	Total Tuition (Dom)
2	6 cr/ year Total: 12	\$2175	\$2133	\$13,048/yr Total: \$26,095	\$12,799/yr Total: \$25,598

- \$3000 Activity fee for the fieldtrip in year 2.
- Tuition is charged a per credit rate.
- Students complete 6 credits per year over 2 years for a total 12 credits.

Admission Qualifications- General

Years of Study Required: A 4- 5 year Bachelors Degree

Overall Grade Required: equivalent of a B+ average.

Acceptable for MENG:
Bachelor's Degree: in Mining, Mineral Processing, Metallurgy, Materials, Industrial, Geological, Civil, Mechanical, Chemical Engineering or Geosciences
* Technical degree so must have technical background

Acceptable for MASC:
Any Bachelor's Degree.
Depends on area of research.

Admission Qualifications

Check your eligibility

<https://www.grad.ubc.ca/prospective-students/application-admission/check-your-eligibility>



- Students can view years of study, GPA and Credentials required by country. The requirements are based on where you received your academic credentials, not your citizenship.
- In most cases these are minimum requirements for admission. Meeting the minimum does not guarantee admission.
- Programs are competitive and we have less space than applicants.

Admission Qualifications- English Proficiency

If English is not the official language in your country then you will need to demonstrate:

- Good English Language Skills (proficiency test & interview)
- IELTS: 6.5 (no band less than 6), or
TOEFL 90 (22 reading & listening) and 21 (writing & speaking)
- Applicants from a university in which English is the primary language of instruction may not need the English proficiency exam.

Application Inquiries

MEng Program (Course-based):

- email: meng@mining.ubc.ca
- Application deadline Feb 1

MASc or PhD Program (Research):

- visit: www.grad.ubc.ca/
- email: gradprogram@mining.ubc.ca
- Applications accepted year-round

UBC Mining Website



November 27, 2025



Application Procedure

Applications to our programs are made online through the portal:

<https://www.grad.ubc.ca/prospective-students/application-admission/apply-online>



November 27, 2025



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Application Timeline- MEng

Applications Open	Application Deadline	Future of Mining Deadline	Referee Deadline	Document Deadline	Orientation Start	Classes Start
September 15, 2025	February 1, 2026	December 31, 2025	February 17, 2026	February 15, 2026	August 4, 2026	September 8, 2026

- Applications are evaluated when all references and documents have been uploaded. The sooner your application is complete the sooner it will be evaluated.
- Our admissions process is a rolling admissions process.

Questions?



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