



Course Information

MEng Students are encouraged to specialize in one of four areas:

Specializations:

- Mining/ Mining Geotechnics
- Mineral Processing
- Mine Environment and Sustainability
- Mine Economics and Finance
- Other

Required Courses:

MINE 501A & B*- Topics for Engineers in the Mining Industry	(4)
MINE 598**- Graduate Student Seminar	<u>(2) (sect. 001)</u> 6 credits

Recommended Specialization Courses: (see below) 9- 13 credits

- [Mining/ Mining Geotechnics](#)
- [Mineral Processing](#)
- [Mine Environment and Sustainability](#)
- [Mine Economics and Finance](#)
- Other (hybrid- mix of courses from different specializations)

Electives: (see below)

5- 9 credits

MINE 597- Engineering Project (register in final term-T3) 6 credits

Total: (minimum of 30 with 24 at 500- level) 30- 34 credits

*Graduates of a Mining Engineering Degree from a North American University may be granted an exemption.

** All graduate students are expected to attend the seminar. To receive credit for the seminar a presentation must be made at the seminar. If you elect not to do the presentation, you will need an additional 2 credits of coursework.

Mining/ Mining Geotechnics:

Specialization Courses: (Select 4 courses)

<input type="checkbox"/> MINE 505- Applied Underground Rock Mechanics	(3)T1
<input type="checkbox"/> MINE 590D- Intro to Rock Mechanics	(3)T1
<input type="checkbox"/> MINE 506 Advanced Underground Mining	(3)T2
<input type="checkbox"/> MINE 552- Mining Geostatistics	(3) T2
<input type="checkbox"/> MINE 310- Surface Mining & Design using Vulcan	(3) T1
<input type="checkbox"/> MINE 507- Cave Mining Systems- Design & Planning	(3) T2
<input type="checkbox"/> MINE 504- Advanced Rock Fragmentation	<u>(3) T2</u>
	12

Electives: (Select 2 courses)

<input type="checkbox"/> Additional Specialization courses from above.	(?)
<input type="checkbox"/> MINE 396- Engineering Economics	(3) T1
<input type="checkbox"/> MINE 554- Mine Economics and Finance	(3) T2
<input type="checkbox"/> MINE 488- Heavy Oil Sand Mining and Processing	(3) T2
<input type="checkbox"/> Other Electives Selected with Approval: _____	<u>(?)</u>
	6

Total Credits: (minimum of 30 with 24 at 500- level) 30

Mineral Processing:

Specialization Courses: (Select all 3)

MINE 331- Physical Mineral Processes	(3) T1
MINE 566- Advanced Coal Preparation	(3) T1
MINE 524- Processing of Precious Metal Ores	<u>(3) T2</u>
	9

Electives: (Select 3 courses)

<input type="checkbox"/> MINE 333 or 590J- Flotation	(3) T2
<input type="checkbox"/> MINE 590P- Advanced Process Mineralogy	(3) T2
<input type="checkbox"/> MINE 488- Heavy Oil Sand Mining and Processing	(3) T2
<input type="checkbox"/> MINE 547- Industrial Automation and Robotics	(3) T1
<input type="checkbox"/> MINE 522- Processing of Mineral Fines	(2/4) T2
<input type="checkbox"/> MINE 529- Rheology of Mineral Fines	(3) T2
<input type="checkbox"/> MINE 396- Engineering Economics	(3) T1
<input type="checkbox"/> MINE 554- Mine Economics and Finance	(3) T2
<input type="checkbox"/> Other Electives Selected with Approval: _____	(?)
	9

Total Credits: (minimum of 30 with 24 at 500- level) 30

Mining Environment and Sustainability:

Specialization Courses: (Select 4 courses)

<input type="checkbox"/> MINE 590A- Mining and Sustainable Development	(3) T1
<input type="checkbox"/> MINE 544- Mining Environment Case Studies	(3) T1
<input type="checkbox"/> MINE 555- Mining and Society	(3) T2
<input type="checkbox"/> MINE 540- Acid Rock Drainage	(3) T2
<input type="checkbox"/> MINE 590W- Environmental Risk Assessment at Mining Sites	(3) n/a
<input type="checkbox"/> MINE 541-Environmental Technologies and Issues in Mining	(3) T1
<input type="checkbox"/> MINE 480- Mine Waste Management	(3) T2
	12

Electives: (Select 2 courses)

<input type="checkbox"/> Additional Specialization courses from above.	(?)
<input type="checkbox"/> MINE 396- Engineering Economics	(3) T1
<input type="checkbox"/> MINE 554- Mine Economics and Finance	(3) T2
<input type="checkbox"/> MINE 559- Mineral Resource Development & CAD First Nation	(3) n/a
<input type="checkbox"/> Other Electives Selected with Approval: _____	(?) .
	6

Total Credits: (minimum of 30 with 24 at 500- level)

30

Mine Economics and Finance:

Specialization Courses: (Select all 3)

MINE 396- Engineering Economics	(3) T1
MINE 554- Mine Economics and Finance	(3) T2
MINE 404- Mine Management	(3) T2
	9

Electives: (Select 3 courses)

<input type="checkbox"/> MINE 553 Modeling of Industrial Systems	(3) (online)
<input type="checkbox"/> MINE 558- Maintenance Engineering	(3) T2
<input type="checkbox"/> MINE 555- Mining and Society	(3) T2
<input type="checkbox"/> MINE 559- Mineral Resource Development & First Nations	(3) n/a
<input type="checkbox"/> Other Electives Selected with Approval: _____	(?) .
	9

Total Credits: (minimum of 30 with 24 at 500- level)

30