



MINING MASTERS OF ENGINEERING PROGRAM- PROGRAM OF STUDIES WORKSHEET

- Original
- Revision

Name: _____
Family Given

Student #: _____ Start Date: _____

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

All Specializations are required to take the following courses:

Required Courses:

MINE 501A & B*- Topics for Engineers in the Mining Industry	(4)
MINE 559*- Indigenous Peoples and Mining in Canada	(3)
MINE 598**- Graduate Student Seminar	<u>(2) (sect. 001)</u>
	9 credits

Recommended Specialization Courses: (see attached) **9- 13 credits**

Electives: (see attached) **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**

Notes: _____

Approved: _____ Date: _____

(Supervisor or Graduate Advisor)

MINE 396 is recommended for all students with an international undergrad degree who are hoping to apply for PENG status in Canada.

*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.

Mineral Processing: Required Courses and Engineering Project:	15
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Specialization Courses: (Select 3 courses)

- | | |
|--|---------------|
| <input type="checkbox"/> MINE 331- Physical Mineral Processes | (3) T1 |
| <input type="checkbox"/> MINE 520- Advanced Coal Preparation | (3) T1 |
| <input type="checkbox"/> MINE 333 or 521- Flotation | (3) T2 |
| <input type="checkbox"/> MINE 524- Processing of Precious Metal Ores | <u>(3) T2</u> |
| | 9 |

Electives: (Select 2 courses)

- | | |
|---|----------|
| <input type="checkbox"/> Additional Specialization Course from above | ? |
| <input type="checkbox"/> MINE 455/ 5??- Mine Water Management | (3) T2 |
| <input type="checkbox"/> MINE 465/ 5??- Materials Handling | (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 Expert Systems | (3) T1 |
| <input type="checkbox"/> MINE 522- Processing of Mineral Fines | (2/4) T2 |
| <input type="checkbox"/> MINE 508- Integrated Mining and Processing Systems | (3) n/a |
| <input type="checkbox"/> MINE 529- Rheology of Mineral Suspensions | (3) T2 |
| <input type="checkbox"/> Other Electives Selected with Approval: _____ | (?) |
| | 6 |

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

Mine Economics and Finance

Required Courses and Engineering Project: 15

Specialization Courses: (Select all 3 courses)

- | | |
|---|---------------|
| <input type="checkbox"/> MINE 396- Mine Economics and Finance* | (3) T1 |
| <input type="checkbox"/> MINE 554- Mine Project Valuation and Risk Assessment | (3) T2 |
| <input type="checkbox"/> MINE 404- Mine Management | <u>(3) T2</u> |
| | 9 |

Electives: (Select 2 courses)

- | | |
|--|--------------|
| <input type="checkbox"/> MINE 553 Modeling of Industrial Systems | (3) (online) |
| <input type="checkbox"/> APSC 541- Tech Entrepreneurship | (3) T2 |
| <input type="checkbox"/> MINE 582- Mine Maintenance | (3) T2 |
| <input type="checkbox"/> MINE 555- Mining and Society | (3) T2 |
| <input type="checkbox"/> COMM 457- Financial Accounting (with approval from Director) | (3) T1* |
| <input type="checkbox"/> COMM 458- Managerial Accounting (with approval from Director) | (3) T2* |
| <input type="checkbox"/> Other Electives Selected with Approval: _____ | (?) |
| | 6 |

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

* with Director's approval.

Mining/ Mining Geotechnics:

Required Courses and Engineering Project: 15

Specialization Courses: (Select 3 courses)

- | | |
|--|-------|
| <input type="checkbox"/> MINE 505- Advanced Topics in Rock Engineering(Pre-req: Intro Rock Mech) | (3)T1 |
|--|-------|

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<input type="checkbox"/> MINE 506- Advanced Underground Mining	(2)T2
<input type="checkbox"/> MINE 310/590C- Surface Mining & Design	(3) T1
<input type="checkbox"/> MINE 304/504- Advanced Rock Fragmentation	<u>(3/2) T2</u>
	9
Electives: (Select 2 courses)	
<input type="checkbox"/> Additional Specialization Course from above	?
<input type="checkbox"/> MINE 507- Block Caving Systems- Design & Planning	(3) T2
<input type="checkbox"/> MINE 515- Mining in the Future	<u>(3) T1</u>
<input type="checkbox"/> MINE 396- Engineering Economics	(3) T1
<input type="checkbox"/> MINE 465- Materials Handling	(3) T2
<input type="checkbox"/> MINE 552- Mining Geostatistics	(3) ?
<input type="checkbox"/> MINE 554- Mine Project Valuation and Risk Assessment	(3) T2
<input type="checkbox"/> MINE 488- Heavy Oil Sand Mining and Processing	(3) T2
<input type="checkbox"/> Other Electives Selected with Approval: _____	(?) .
	6
Total Credits: (minimum of 30 with 24 at 500- level)	31/32

<u>Mining Environment and Sustainability:</u>	
Required Courses and Engineering Project:	15
Specialization Courses: (Select 3 courses)	
<input type="checkbox"/> MINE 590A- Mining and Sustainable Development	(3) T1
<input type="checkbox"/> MINE 541- Environmental Technologies and Issues in Mining	(3) T1
<input type="checkbox"/> MINE 555- Mining and Society	(3) T2
<input type="checkbox"/> MINE 455- Mine Water Management	<u>(3) T2</u>
	9
Electives: (Select 2 courses)	
<input type="checkbox"/> Additional Specialization Course from above	?
<input type="checkbox"/> MINE 590Q- Mine Waste Management	<u>(3) T2</u>
<input type="checkbox"/> MINE 515- Mining in the Future	<u>(3) T1</u>
<input type="checkbox"/> MINE 544- Mining Environment Case Studies	(3) n/a
<input type="checkbox"/> MINE 396- Engineering Economics	(3) T1
<input type="checkbox"/> MINE 554- Mine Project Valuation and Risk Assessment	(3) T2
<input type="checkbox"/> Other Electives Selected with Approval: _____	(?) .
	6
Total Credits: (minimum of 30 with 24 at 500- level)	30