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 (sect. 001) (2) 9 credits

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

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**Electives:** (see attached) 5- 9 credits

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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.
## MINING MASTERS OF ENGINEERING PROGRAM
### PROGRAM OF STUDIES WORKSHEET

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### Mineral Processing:

**Recommended Courses and Engineering Project:** 15

**Specialization Courses: (Select 3 courses)**

- MINE 331 - Physical Mineral Processes (3) T1
- MINE 520 - Advanced Coal Preparation (3) T1
- MINE 333 or 521 - Flotation (3) T2
- MINE 524 - Processing of Precious Metal Ores (3) T2

**Electives: (Select 2 courses)**

- Additional Specialization Course from above ?
- MINE 455 Mine Water Management (3) T2
- MINE 465 Materials Handling (3) T2
- MINE 590P - Advanced Process Mineralogy (3) T2
- MINE 488 - Heavy Oil Sand Mining and Processing (3) T2
- MINE 547 - Industrial Expert Systems (3) T1
- MINE 522 - Processing of Mineral Fines (2/4) T2
- MINE 508 - Integrated Mining and Processing Systems (3) n/a
- MINE 529 - Rheology of Mineral Suspensions (3) T2
- Other Electives Selected with Approval: 

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

### Mine Economics and Finance

**Recommended Courses and Engineering Project:** 15

**Specialization Courses: (Select all 3 courses)**

- MINE 396 - Mine Economics and Finance* (3) T1
- MINE 554 - Mine Project Valuation and Risk Assessment (3) T2
- MINE 404 - Mine Management (3) T2

**Electives: (Select 2 courses)**

- MINE 553 Modeling of Industrial Systems (3) (online)
- APSC 541 - Tech Entrepreneurship (3) T2
- MINE 555 - Mining and Society (3) T2
- COMM 457 - Financial Accounting (with approval from Director) (3) T1
- COMM 458 - Managerial Accounting (with approval from Director) (3) T2
- Other Electives Selected with Approval: 

**Total Credits:** (minimum of 30 with 24 at 500-level) 30
### Mining/ Mining Geotechnics:

**Recommended Courses and Engineering Project:** 15

**Specialization Courses:** (Select 3 courses)
- MINE 505- Advanced Topics in Rock Engineering (Pre-req: Intro Rock Mech) (3) T1
- MINE 506- Advanced Underground Mining (3) T2
- MINE 310/590C- Surface Mining & Design (3) T1
- MINE 304/504- Advanced Rock Fragmentation (3/2) T2

**Electives:** (Select 2 courses)
- Additional Specialization Course from above ?
- MINE 507- Block Caving Systems- Design & Planning (3) T2
- MINE 509- Mine Ventilation (2) T1
- MINE 515- Mining in the Future (3) T2
- MINE 396- Engineering Economics (3) T1
- MINE 465- Materials Handling (3) T2
- MINE 552- Mining Geostatistics (3) ?
- MINE 554- Mine Project Valuation and Risk Assessment (3) T2
- MINE 488- Heavy Oil Sand Mining and Processing (3) T2
- Other Electives Selected with Approval: ________________________ (?).

**Total Credits:** (minimum of 30 with 24 at 500- level) 31/32

### Mining Environment and Sustainability:

**Recommended Courses and Engineering Project:** 15

**Specialization Courses:** (Select 3 courses)
- MINE 541- Environmental Technologies and Issues in Mining (3) T1
- MINE 555- Mining and Society (3) T2
- MINE 455- Mine Water Management (3) T2

**Electives:** (Select 2 courses)
- Additional Specialization Course from above ?
- MINE 590Q- Mine Waste Management (3) T2
- MINE 515- Mining in the Future (3) T1
- MINE 396- Engineering Economics (3) T1
- MINE 554- Mine Project Valuation and Risk Assessment (3) T2
- Other Electives Selected with Approval: ________________________ (?).

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