

Course Suggestions for Graduate Students in Mining Engineering

General:

Graduate students can take a maximum of 6 credits of 300 and 400 level courses for credit towards degree.

Masters: 60% is the passing grade in every course. There is a limit of 6 credits with grades between 60 and 67%. More than 6 credits and you will need to retake the course and achieve at least 74%.

PHD: 68% is the passing grade in every course. Below 68% is considered a fail. For failed courses the student must retake the same course (or a course approved by grad advisor) and achieve at least 74%.

The policies for Academic Progress are outlined on this page: https://www.grad.ubc.ca/faculty-staff/policies-procedures/academic-progress-grading-practices

All students should be familiar with the policy.

You cannot TA for a course which you are taking

MASc students

Required Courses:

| | 30 credits |
|---|------------|
| MINE 598** - Graduate Student Seminar | 2 credits |
| MINE 599C - MASc Thesis | 12 credits |
| Courses selected in consultation with your supervisor | 16 credits |

PhD Students

Required Courses:

MINE 698- Graduate Student Seminar 2 credits

MINE 699- Doctoral Dissertation

Courses required by your supervisory committee



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| Mineral Processing: | |
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| MINE 331/590F - Physical Mineral Processes MINE 447 - Dewatering of Fine Tailing MINE 520 - Advanced Coal Preparation MINE 434/524- Processing of Precious Metal Ores MINE 465/590Y - Materials Handling MINE 333/521 - Flotation MINE 432/547- Industrial Expert Systems-Data Science for Mining MINE 508- Integrated Mining and Processing Systems MINE 590P- Urban Mining MINE 529- Rheology of Mineral Suspensions | • |
| ☐ MINE 522 - Processing of Mineral Fines | (4) T1 |
| Mine Economics and Finance | |
| □ MINE 396 – Engineering Economics □ APSC 541 – Technology Entrepreneurship* □ MINE 406/554 – Mine Project Valuation and Risk Assessment □ MINE 555 – Mining and Society □ MINE 404/590E – Strategic Issues in Mining □ MINE 515- The Future of Mining **APSC 541 requires separate application http://blogs.ubc.ca/baen506apsc541techentrepreneursh | (3) T1 (3) T2 (3) T2 (3) T1 (3) T2 (3) T2 |
| Mining/ Mining Geotechnics: | |
| □ MINE 310/590C - Advanced Surface Mining & Design □ Rock Mechanics Course (one of the following) ○ MINE 303/590M - Rock Mechanics Fundamentals | (3)T1 (3)T1 or T2 (3)T2 |
| MINE 403/505- Rock Mechanics Design (prereq: intro to rock me MINE 420/552 - Mining Geostatistics MINE 302/506 - Advanced UG Mine Design MINE 485/507 - Block Caving Systems- Design & Planning MINE 402/509 - Mine Ventilation MINE 432/547- Industrial Expert Systems-Data Science for Mining MINE 465/590Y - Materials Handling | (3) T2 (3) T2 (3) T2 (3) T2 (3) T1 (3) T1 (3) T1 |
| Mining Environment and Sustainability: | |
| MINE 447 - Dewatering of Fine Tailings MINE 470/559 - Indigenous Peoples and Mining in Canada MINE 555 - Mining and Society MINE 455/590X - Advanced Mine Water Management (3) not offered MINE 380/590Q - Advanced Mine Waste Management MINE 581 - Safety of Tailings Storage Facilities MINE 585-Risk Management of Tailings Storage Fac (3) not offered | (3) T2 (3) T1 |



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| ☐ MINE 444/590P - Urban Mining Recovering Value from E-waste (3) T2 | ☐ MINE 444/590P - Urban Mining Recovering Value from E-waste | (3) T2 | |
|---|--|--------|--|
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| Mine Waste Management: | | |
|--|------------|--|
| ☐ MINE 447 - Dewatering of Fine Tailings | (3) T1 | |
| ☐ MINE 581 - Safety of Tailings Storage Facilities | (3) T1 | |
| ☐ MINE 380/ 590Q- Advanced Mine Waste Management | (3) T2 | |
| ☐ CIVL 418 - Engineering Hydrology | (3) T1 | |
| ☐ MINE 444/MINE 590P - Urban Mining | (3) T2 | |
| ☐ MINE 555 - Mining and Society | (3) T1 | |
| ☐ MINE 585 - Risk Management of Tailings Storage Fac (3) not offer | ed 2025W | |
| ☐ MINE 455/590X- Advanced Mine Water Management (3) not offer | ered 2025W | |
| The following are offered by other departments. You will need your | | |
| supervisor's permission and the instructor's permission to enroll | • • | |
| ☐ CIVL 413 - Design of Earth Dams and Containment Structures | (3) T2 | |
| ☐ CIVL 570 - Advanced Soil Mechanics | (3) T1 | |
| □ CIVL 575 - Constitutive Models for Soils | (3) T2 | |
| ☐ CIVL 579 – Geosynthetics | (3) T1 | |
| □ EOSC 329 - Groundwater Hydrology | (3) T1 | |
| □ EOSC 429 - Groundwater Contamination | (3) T1 | |
| ☐ EOSC 433 - Geological Engineering Practice II - Soil Engineering | (3) T2 | |
| ☐ EOSC 533 - Advanced Groundwater Hydrology | (3) T1 | |