## Mining Engineering Co-op Curriculum - Fall 2018

## Non-CEGEP Entry

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1st Term (Fall			Prerequisites/Co-requisites
CHEM 110	General Chemistry 1	4	P - College level mathematics and physics or permission of instructor
FACC 100	Introduction to the Engineering Profession	1	-
MATH 133	Linear Algebra and Geometry	3	P - A course in functions
MATH 140	Calculus 1	3	P - High school calculus
PHYS 131	Mechanics and Waves	4	C - Calculus course [MATH 140]
2nd Term (Wi			Prerequisites/Co-requisites
CHEM 120	General Chemistry 2	4	P - College level mathematics and physics or permission of
			instructor
MATH 141	Calculus 2	4	P - MATH 140
PHYS 142 CS	Electromagnetism and Optics Complementary Studies Group B (HSSML) - 1*	4 3	P - PHYS 131 / C - MATH 141
3rd Term (Fal			- Proroguioitos/Co reguisitos
•	,		Prerequisites/Co-requisites
CCOM 206	Communication in Engineering	3	-
EPSC 221	General Geology	3	- 
MATH 262 MATH 263	Intermediate Calculus	3	P - MATH 133, MATH 141 C - MATH 262
MATH 263 MECH 289	Ordinary Differential Equations for Engineers Design Graphics	3	MATH 262
MIME 200	Introduction to the Minerals Industry	3	-
4th Term (Wir		-	Prerequisites/Co-requisites
CIVE 205	,		Fielequisites/CO-lequisites
COMP 208	Statics Computers in Engineering	3	- B differential and integral coloulus [MATH 140 and MATH 1411/
CONF 200	Computers in Engineering	3	P - differential and integral calculus [MATH 140 and MATH 141] / $C$ - linear algebra [MATH 133]
EPSC 225	Properties of Minerals	1	
FACC 250	Responsibilities of the Professional Engineer	0	- P - FACC 100 or BREE 250
FACC 300	Engineering Economy	3	
MATH 264	Advanced Calculus for Engineers	3	P - MATH 262 / C - MATH 263
MIME 209	Mathematical Applications	3	-
5th Term (Sur			Prerequisites/Co-requisites
MIME 203	Mine Surveying	2	P - MECH 289
MIME 200	Industrial Work Period 1	2	P - MILE 200 and MIME 203
6th Term (Fal			Prerequisites/Co-requisites
CIVE 207	Solid Mechanics	4	P - CIVE 205 or MECH 210
MIME 260	Materials Science and Engineering	3	-
MIME 340	Applied Fluid Dynamics	3	-
MIME xxx	Technical Complementary	3	-
CS	Complementary Studies Group B (HSSML) - 2*	3	-
7th Term (Wir			Prerequisites/Co-requisites
MIME 322	Rock Fragmentation	3	P - MIME 200
MIME 323	Rock and Soil Mass Characterization	3	P - EPSC 221, MIME 200
MIME 325	Mineral Industry Economics	3	P - FACC 300
MIME 333	Materials Handling	3	P - MIME 200
MIME 333 MIME 341	Introduction to Mineral Processing	3	P - MIME 200 or MIME 250
MIME 333 MIME 341	Introduction to Mineral Processing		
MIME 333 MIME 341 8th Term (Sur MIME 291	Introduction to Mineral Processing nmer) Industrial Work Period 2	3	P - MIME 200 or MIME 250
MIME 333 MIME 341 8th Term (Sur MIME 291	Introduction to Mineral Processing nmer) Industrial Work Period 2	3 2 credits 2	P - MIME 200 or MIME 250 Prerequisites/Co-requisites
MIME 333 MIME 341 8th Term (Sur MIME 291 9th Term (Fal	Introduction to Mineral Processing nmer) Industrial Work Period 2	3 2 credits 2	P - MIME 200 or MIME 250 Prerequisites/Co-requisites P - MIME 290
MIME 333 MIME 341 8th Term (Sur MIME 291 9th Term (Fal CIVE 208	Introduction to Mineral Processing nmer) Industrial Work Period 2 )	3 2 credits 2 17 credits	P - MIME 200 or MIME 250 Prerequisites/Co-requisites P - MIME 290 Prerequisites/Co-requisites
MIME 333 MIME 341 8th Term (Sur MIME 291 9th Term (Fal CIVE 208 MIME 329	Introduction to Mineral Processing nmer) Industrial Work Period 2 ) Civil Engineering System Analysis	3 2 credits 2 17 credits 3	P - MIME 200 or MIME 250 Prerequisites/Co-requisites P - MIME 290 Prerequisites/Co-requisites P - COMP 208 / C - MATH 264
MIME 333 MIME 341 8th Term (Sur MIME 291 9th Term (Fal CIVE 208 MIME 329	Introduction to Mineral Processing nmer) Industrial Work Period 2 ) Civil Engineering System Analysis Mining Geology	3 2 credits 2 17 credits 3 2	P - MIME 200 or MIME 250 Prerequisites/Co-requisites P - MIME 290 Prerequisites/Co-requisites P - COMP 208 / C - MATH 264 P - EPSC 221, MIME 200, instructor permission
MIME 333 MIME 341 8th Term (Sur MIME 291 9th Term (Fal CIVE 208 MIME 329 MIME 330	Introduction to Mineral Processing nmer) Industrial Work Period 2 ) Civil Engineering System Analysis Mining Geology Mining Geotechnics	3 2 credits 2 17 credits 3 2 3	P - MIME 200 or MIME 250 Prerequisites/Co-requisites P - MIME 290 Prerequisites/Co-requisites P - COMP 208 / C - MATH 264 P - EPSC 221, MIME 200, instructor permission P - MIME 323
MIME 333 MIME 341 8th Term (Sur MIME 291 9th Term (Fal CIVE 208 MIME 329 MIME 330 MIME 421	Introduction to Mineral Processing nmer) Industrial Work Period 2 ) Civil Engineering System Analysis Mining Geology Mining Geotechnics Rock Mechanics	3 2 credits 2 17 credits 3 2 3 3 3	P - MIME 200 or MIME 250 Prerequisites/Co-requisites P - MIME 290 Prerequisites/Co-requisites P - COMP 208 / C - MATH 264 P - EPSC 221, MIME 200, instructor permission P - MIME 323
MIME 333 MIME 341 8th Term (Sur MIME 291 9th Term (Fal CIVE 208 MIME 329 MIME 330 MIME 421 CS MIME xxx	Introduction to Mineral Processing nmer) Industrial Work Period 2 ) Civil Engineering System Analysis Mining Geology Mining Geotechnics Rock Mechanics Complementary Studies Group A (Impact)* Technical Complementary	3 2 credits 2 17 credits 3 2 3 3 3 3 3 3 3 3	P - MIME 200 or MIME 250 Prerequisites/Co-requisites P - MIME 290 Prerequisites/Co-requisites P - COMP 208 / C - MATH 264 P - EPSC 221, MIME 200, instructor permission P - MIME 323
MIME 333 MIME 341 8th Term (Sur MIME 291 9th Term (Fal CIVE 208 MIME 329 MIME 330 MIME 421 CS MIME xxx 10th Term (W	Introduction to Mineral Processing nmer) Industrial Work Period 2 ) Civil Engineering System Analysis Mining Geology Mining Geotechnics Rock Mechanics Complementary Studies Group A (Impact)* Technical Complementary	3 2 credits 2 17 credits 3 2 3 3 3 3 3 3 3 3	P - MIME 200 or MIME 250 Prerequisites/Co-requisites P - MIME 290 Prerequisites/Co-requisites P - COMP 208 / C - MATH 264 P - EPSC 221, MIME 200, instructor permission P - MIME 323 P - MIME 323, instructor permission -
MIME 333 MIME 341 8th Term (Sur MIME 291 9th Term (Fal CIVE 208 MIME 329 MIME 330 MIME 421 CS MIME xxx 10th Term (W MIME 392	Introduction to Mineral Processing nmer) Industrial Work Period 2 ) Civil Engineering System Analysis Mining Geology Mining Geotechnics Rock Mechanics Complementary Studies Group A (Impact)* Technical Complementary nter) Industrial Work Period 3	3 2 credits 2 17 credits 3 2 3 3 3 3 3 2 credits 2	P - MIME 200 or MIME 250 Prerequisites/Co-requisites P - MIME 290 Prerequisites/Co-requisites P - COMP 208 / C - MATH 264 P - EPSC 221, MIME 200, instructor permission P - MIME 323 P - MIME 323, instructor permission - - Prerequisites/Co-requisites
MIME 333 MIME 341 8th Term (Sur MIME 291 9th Term (Fal CIVE 208 MIME 329 MIME 329 MIME 330 MIME 421 CS MIME xxx 10th Term (W MIME 392 11th Term (Su	Introduction to Mineral Processing nmer) Industrial Work Period 2 ) Civil Engineering System Analysis Mining Geology Mining Geotechnics Rock Mechanics Complementary Studies Group A (Impact)* Technical Complementary nter) Industrial Work Period 3	3 2 credits 2 17 credits 3 2 3 3 3 3 3 2 credits 2	P - MIME 200 or MIME 250 Prerequisites/Co-requisites P - MIME 290 Prerequisites/Co-requisites P - COMP 208 / C - MATH 264 P - EPSC 221, MIME 200, instructor permission P - MIME 323 P - MIME 323, instructor permission - - Prerequisites/Co-requisites P - MIME 291, 75 program credits
MIME 333 MIME 341 8th Term (Sur MIME 291 9th Term (Fal CIVE 208 MIME 329 MIME 329 MIME 330 MIME 421 CS MIME xxx 10th Term (W MIME 392 11th Term (Su MIME 419	Introduction to Mineral Processing nmer) Industrial Work Period 2 ) Civil Engineering System Analysis Mining Geology Mining Geotechnics Rock Mechanics Complementary Studies Group A (Impact)* Technical Complementary nter) Industrial Work Period 3 Immer) Surface Mining	3 2 credits 2 17 credits 3 2 3 3 3 3 2 credits 2 15 credits	P - MIME 200 or MIME 250 Prerequisites/Co-requisites P - MIME 290 Prerequisites/Co-requisites P - COMP 208 / C - MATH 264 P - EPSC 221, MIME 200, instructor permission P - MIME 323 P - MIME 323, instructor permission - - Prerequisites/Co-requisites P - MIME 291, 75 program credits Prerequisites/Co-requisites P - MIME 322, MIME 325, MIME 333
MIME 333 MIME 341 8th Term (Sur MIME 291 9th Term (Fal CIVE 208 MIME 329 MIME 330 MIME 421 CS MIME 421 CS MIME xxx 10th Term (W MIME 392 11th Term (Su MIME 419 MIME 422	Introduction to Mineral Processing nmer) Industrial Work Period 2 ) Civil Engineering System Analysis Mining Geology Mining Geotechnics Rock Mechanics Complementary Studies Group A (Impact)* Technical Complementary nter) Industrial Work Period 3 Immer)	3 2 credits 2 17 credits 3 2 3 3 3 3 3 2 credits 2 15 credits 3	P - MIME 200 or MIME 250 Prerequisites/Co-requisites P - MIME 290 Prerequisites/Co-requisites P - COMP 208 / C - MATH 264 P - EPSC 221, MIME 200, instructor permission P - MIME 323 P - MIME 323, instructor permission - - Prerequisites/Co-requisites P - MIME 291, 75 program credits Prerequisites/Co-requisites
MIME 333 MIME 341 8th Term (Sur MIME 291 9th Term (Fal CIVE 208 MIME 329 MIME 329 MIME 421 CS MIME 421 CS MIME xxx 10th Term (W MIME 392 11th Term (Su MIME 419 MIME 422 MIME 424	Introduction to Mineral Processing nmer) Industrial Work Period 2 ) Civil Engineering System Analysis Mining Geology Mining Geotechnics Rock Mechanics Complementary Studies Group A (Impact)* Technical Complementary nter) Industrial Work Period 3 Immer) Surface Mining Mine Ventilation Underground Mining Methods	3 2 credits 2 17 credits 3 2 3 3 3 3 3 3 2 credits 2 15 credits 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	P - MIME 200 or MIME 250 Prerequisites/Co-requisites P - MIME 290 Prerequisites/Co-requisites P - COMP 208 / C - MATH 264 P - EPSC 221, MIME 200, instructor permission P - MIME 323 P - MIME 323, instructor permission - - Prerequisites/Co-requisites P - MIME 291, 75 program credits Prerequisites/Co-requisites P - MIME 322, MIME 325, MIME 333 P - MIME 340 P - MIME 322, MIME 325, MIME 333
MIME 333 MIME 341 8th Term (Sur MIME 291 9th Term (Fal CIVE 208 MIME 329 MIME 329 MIME 421 CS MIME 421 CS MIME 421 Oth Term (W MIME 392 11th Term (Su MIME 419 MIME 422 MIME 424 MIME 428	Introduction to Mineral Processing nmer) Industrial Work Period 2 ) Civil Engineering System Analysis Mining Geology Mining Geotechnics Rock Mechanics Complementary Studies Group A (Impact)* Technical Complementary Industrial Work Period 3 Industrial Work Period A Industrial Work Period A I	3 2 credits 2 17 credits 3 2 3 3 3 3 3 2 credits 2 15 credits 3 3 3 3	P - MIME 200 or MIME 250 Prerequisites/Co-requisites P - MIME 290 Prerequisites/Co-requisites P - COMP 208 / C - MATH 264 P - EPSC 221, MIME 200, instructor permission P - MIME 323 P - MIME 323, instructor permission - - Prerequisites/Co-requisites P - MIME 291, 75 program credits Prerequisites/Co-requisites P - MIME 322, MIME 325, MIME 333 P - MIME 340
MIME 333 MIME 341 8th Term (Sur MIME 291 9th Term (Fal CIVE 208 MIME 329 MIME 329 MIME 421 CS MIME 421 CS MIME 421 CS MIME 421 MIME 422 MIME 419 MIME 422 MIME 424 MIME 428 MIME 428 MIME xxx	Introduction to Mineral Processing nmer) Industrial Work Period 2 ) Civil Engineering System Analysis Mining Geology Mining Geotechnics Rock Mechanics Complementary Studies Group A (Impact)* Technical Complementary Industrial Work Period 3 Industrial Work Period 9 Industrial Work Period 9 Industrial Work Period 9 I	3 2 credits 2 17 credits 3 2 3 3 3 3 3 2 credits 2 15 credits 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	P - MIME 200 or MIME 250 Prerequisites/Co-requisites P - MIME 290 Prerequisites/Co-requisites P - COMP 208 / C - MATH 264 P - EPSC 221, MIME 200, instructor permission P - MIME 323 P - MIME 323, instructor permission - - Prerequisites/Co-requisites P - MIME 291, 75 program credits Prerequisites/Co-requisites P - MIME 291, 75 program credits Prerequisites/Co-requisites P - MIME 322, MIME 325, MIME 333 P - MIME 340 P - MIME 320, MIME 325, MIME 333 P - MIME 320, MIME 325, MIME 333 P - MIME 320, MIME 291
MIME 333 MIME 341 8th Term (Sur MIME 291 9th Term (Fal CIVE 208 MIME 329 MIME 329 MIME 330 MIME 421 CS MIME 421 CS MIME 421 MIME 392 11th Term (Sur MIME 419 MIME 422 MIME 424 MIME 428 MIME 428 MIME xxx 12th Term (Fa	Introduction to Mineral Processing nmer) Industrial Work Period 2 ) Civil Engineering System Analysis Mining Geology Mining Geotechnics Rock Mechanics Complementary Studies Group A (Impact)* Technical Complementary inter) Industrial Work Period 3 Industrial Work Period 4 Industrial Work Per	3 2 credits 2 17 credits 3 2 3 3 3 3 3 2 credits 2 15 credits 3 3 3 3 3 16 credits	P - MIME 200 or MIME 250 Prerequisites/Co-requisites P - MIME 290 Prerequisites/Co-requisites P - COMP 208 / C - MATH 264 P - EPSC 221, MIME 200, instructor permission P - MIME 323 P - MIME 323, instructor permission - - Prerequisites/Co-requisites P - MIME 291, 75 program credits Prerequisites/Co-requisites P - MIME 322, MIME 325, MIME 333 P - MIME 340 P - MIME 322, MIME 325, MIME 333
MIME 333 MIME 341 8th Term (Sur MIME 291 9th Term (Fal CIVE 208 MIME 329 MIME 329 MIME 329 MIME 421 CS MIME 421 CS MIME 421 CS MIME 421 MIME 422 MIME 419 MIME 422 MIME 424 MIME 428 MIME 438 MIME 438 MI	Introduction to Mineral Processing nmer) Industrial Work Period 2 ) Civil Engineering System Analysis Mining Geology Mining Geotechnics Rock Mechanics Complementary Studies Group A (Impact)* Technical Complementary nter) Industrial Work Period 3 Immer) Surface Mining Mine Ventilation Underground Mining Methods Environmental Mining Engineering Technical Complementary II) Electric Machinery	3 2 credits 2 17 credits 3 2 3 3 3 3 3 2 credits 2 15 credits 3 3 3 3 3 3 16 credits 3	P - MIME 200 or MIME 250 Prerequisites/Co-requisites P - MIME 290 Prerequisites/Co-requisites P - COMP 208 / C - MATH 264 P - EPSC 221, MIME 200, instructor permission P - MIME 323 P - MIME 323, instructor permission - - - Prerequisites/Co-requisites P - MIME 291, 75 program credits Prerequisites/Co-requisites P - MIME 322, MIME 325, MIME 333 P - MIME 340 P - MIME 340 P - MIME 322, MIME 325, MIME 333 P - MIME 340 P - MIME 320, MIME 325, MIME 333 P - MIME 320, MIME 291 - Prerequisites/Co-requisites -
MIME 333 MIME 341 8th Term (Sur MIME 291 9th Term (Fal CIVE 208 MIME 329 MIME 329 MIME 330 MIME 421 CS MIME 421 CS MIME 421 CS MIME 392 11th Term (Su MIME 419 MIME 419 MIME 422 MIME 424 MIME 424 MIME 428 MIME 428 MIME 428 MIME XXX 12th Term (Fa ECSE 461 FACC 400	Introduction to Mineral Processing nmer) Industrial Work Period 2 ) Civil Engineering System Analysis Mining Geology Mining Geotechnics Rock Mechanics Complementary Studies Group A (Impact)* Technical Complementary nter) Industrial Work Period 3 Industrial Work Peri	3 2 credits 2 17 credits 3 2 3 3 3 3 2 credits 2 15 credits 3 3 3 3 3 16 credits 3 1	P - MIME 200 or MIME 250 Prerequisites/Co-requisites P - MIME 290 Prerequisites/Co-requisites P - COMP 208 / C - MATH 264 P - EPSC 221, MIME 200, instructor permission P - MIME 323 P - MIME 323, instructor permission - - - Prerequisites/Co-requisites P - MIME 291, 75 program credits Prerequisites/Co-requisites P - MIME 322, MIME 325, MIME 333 P - MIME 340 P - MIME 340 P - MIME 322, MIME 325, MIME 333 P - MIME 340 P - MIME 320, MIME 325, MIME 333 P - MIME 340 P - MIME 320, MIME 291 - Prerequisites/Co-requisites - P - FACC 100, FACC 250***, and 60 program credits
MIME 333 MIME 341 8th Term (Sur MIME 291 9th Term (Fal CIVE 208 MIME 329 MIME 329 MIME 329 MIME 421 CS MIME 421 CS MIME 421 CS MIME 421 MIME 422 MIME 419 MIME 422 MIME 424 MIME 428 MIME 438 MIME 438 MI	Introduction to Mineral Processing mmer) Industrial Work Period 2 Civil Engineering System Analysis Mining Geology Mining Geotechnics Rock Mechanics Complementary Studies Group A (Impact)* Technical Complementary Inter) Industrial Work Period 3 Immer) Surface Mining Mine Ventilation Underground Mining Methods Environmental Mining Engineering Technical Complementary II) Electric Machinery Engineering Professional Practice MIME 413 Strategic Mine Planning With Uncertainty OR MIME 425 Applied	3 2 credits 2 17 credits 3 2 3 3 3 3 3 2 credits 2 15 credits 3 3 3 3 3 3 16 credits 3	P - MIME 200 or MIME 250 Prerequisites/Co-requisites P - MIME 290 Prerequisites/Co-requisites P - COMP 208 / C - MATH 264 P - EPSC 221, MIME 200, instructor permission P - MIME 323 P - MIME 323, instructor permission - - Prerequisites/Co-requisites P - MIME 291, 75 program credits Prerequisites/Co-requisites P - MIME 322, MIME 325, MIME 333 P - MIME 340 P - MIME 340 P - MIME 322, MIME 325, MIME 333 P - MIME 340 P - MIME 320, MIME 325, MIME 333 P - MIME 200, MIME 291 - Prerequisites/Co-requisites - P - FACC 100, FACC 250***, and 60 program credits MIME 413: P - MIME 325, MIME 419, MPMC 326, and MPMC 325
MIME 333 MIME 341 8th Term (Sur MIME 291 9th Term (Fal CIVE 208 MIME 329 MIME 329 MIME 330 MIME 421 CS MIME 421 CS MIME 421 CS MIME 421 MIME 422 MIME 424 MIME 419 MIME 422 MIME 424 MIME 428 MIME 429 MIME 428 MIME 438 MIME 438 MIME 438 MIME 438 MIME 438 MIME 438 MIME 438 MIME 438 MI	Introduction to Mineral Processing nmer) Industrial Work Period 2 ) Civil Engineering System Analysis Mining Geology Mining Geotechnics Rock Mechanics Complementary Studies Group A (Impact)* Technical Complementary nter) Industrial Work Period 3 Industrial Work Peri	3 2 credits 2 17 credits 3 2 3 3 3 3 2 credits 2 15 credits 3 3 3 3 3 16 credits 3 1	P - MIME 200 or MIME 250 Prerequisites/Co-requisites P - MIME 290 Prerequisites/Co-requisites P - COMP 208 / C - MATH 264 P - EPSC 221, MIME 200, instructor permission P - MIME 323 P - MIME 323, instructor permission - - Prerequisites/Co-requisites P - MIME 291, 75 program credits Prerequisites/Co-requisites P - MIME 322, MIME 325, MIME 333 P - MIME 340 P - MIME 340 P - MIME 322, MIME 325, MIME 333 P - MIME 340 P - MIME 320, MIME 325, MIME 333 P - MIME 320, MIME 291 - Prerequisites/Co-requisites -

Technical Complementary courses are selected from an approved list given on the next page.

\*The Complementary Studies (CS) courses are Impact of Technology courses (Group A) and Humanities & Social Sciences, Management Studies and Law courses (Group B). Students must take one course (3 credits) from Group A and two courses (6 credits) from Group B. The curriculum above includes suggested terms during which these courses can be taken. These must be chosen from an approved list of courses/departments, found in the program list under "Complementary Studies" in the Faculty of Engineering Undergraduate section of the *Programs, Courses and University Regulations* publication (www.mcgill.ca/study) (see your program listing in the "Browse Academic Units & Programs" section).

\*\*Students must take at least one of MIME 413 or MIME 425 (offered in alternate years) or they may take both courses. If only one course is taken, another technical complementary course must be taken.

\*\*\*FACC 250 is not yet indicated as a prerequisite in the eCalendar course information (www.mcgill.ca/study) but it will be before FACC 400 is taken.

Students are responsible for satisfying pre-/co-requisites and verifying with their department that they are meeting the requirements of their program.

## **Technical Complementary Courses - Mining Engineering**

A minimum of 14 credits (5 courses) of Technical Complementaries must be taken, INCLUDING at least one of MIME 413 and MIME 425. 8-12 credits (3-4 courses) selected from those listed below or any other approved technical course(s) in Engineering, Management or Science. Note: Not all courses are given annually; verification with course instructor is advised.

	Credits	Prerequisites/Co-requisites
Investment and Portfolio Management	3	P - MGCR 211, MGCR 341
Geotechnical Engineering	3	P - CIVE 311 or instructor permission
Municipal Systems	3	P - CIVE 327
Structural Mechanics	3	P - CIVE 207 and instructor permission
Groundwater Engineering	3	P - CIVE 311 or instructor permission
Elementary Earth Physics	3	P - MATH 133, MATH 222/262, or equivalent courses
Hydrogeology	3	P - Permission of instructor
International Finance 1	3	P - MGCR 341
Extraction of Energy Resources	3	-
Analysis, Modelling and Optimization in Mineral Processing	3	P - MIME 341
Mining Project	3	P - 85 credits completed
Industrial Work Period 4	3	P - MIME 419, MPMC 328, MPMC 421
Advanced Mine Ventilation and Air Conditioning	3	-
Stability of Rock Slopes	3	P - Permission of instructor
Selected Topics in Mineral Resource Engineering	3	P - 85 credits
Analysis: Mineral Processing Systems 1	3	P - MIME 341
Analysis: Mineral Processing Systems 2	3	P - MIME 341
Reliability Analysis of Mining Systems	3	P - Permission of instructor
CAO et informatique pour les mines	3	-
	Geotechnical Engineering         Municipal Systems         Structural Mechanics         Groundwater Engineering         Elementary Earth Physics         Hydrogeology         International Finance 1         Extraction of Energy Resources         Analysis, Modelling and Optimization in Mineral Processing         Mining Project         Industrial Work Period 4         Advanced Mine Ventilation and Air Conditioning         Stability of Rock Slopes         Selected Topics in Mineral Resource Engineering         Analysis: Mineral Processing Systems 1         Analysis: Mineral Processing Systems 2         Reliability Analysis of Mining Systems	Investment and Portfolio Management3Geotechnical Engineering3Municipal Systems3Structural Mechanics3Groundwater Engineering3Elementary Earth Physics3Hydrogeology3International Finance 13Extraction of Energy Resources3Analysis, Modelling and Optimization in Mineral Processing3Industrial Work Period 43Advanced Mine Ventilation and Air Conditioning3Stability of Rock Slopes3Selected Topics in Mineral Resource Engineering3Analysis: Mineral Processing Systems 13Analysis: Mineral Processing Systems 23Reliability Analysis of Mining Systems3

## Last update: May 17, 2018

For the official program listing, see the Programs, Courses and University Regulations publication (www.mcgill.ca/study).