## **Mining Engineering Co-op Curriculum - FALL 2023**

**Non-CEGEP Entry** 

Non-CEGEP Entry								
1st Term (Fal	l)	15 credits	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]					
		15 credits	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	Electromagnetism and Optics	4	P - PHYS 131 / C - MATH 141					
CS	Complementary Studies Group B (HSSML) - 1*	3	-					
		18 credits	Prerequisites/Co-requisites					
WCOM 206	Communication in Engineering	3	-					
EPSC 221	General Geology	3	-					
MATH 262	Intermediate Calculus	3	P - MATH 133, MATH 141					
MATH 263	Ordinary Differential Equations for Engineers	3	C - MATH 262					
MECH 289	Design Graphics	3	-					
MIME 200	Introduction to the Minerals Industry	3	-					
		16 credits	Prerequisites/Co-requisites					
CIVE 205	Statics	3	-					
COMP 208	Computer Programming for Physical Sciences and Engineering	3	P - MATH 141 / C - 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	-					
		4 credits	Prerequisites/Co-requisites					
MIME 203	Mine Surveying	2	P - MECH 289					
MIME 290	Industrial Work Period 1	2	P - MIME 200 and MIME 203					
6th Term (Fal	D	18 credits	Prerequisites/Co-requisites					
CIVE 207	Solid Mechanics	4	P - CIVE 205 or MECH 210					
ECSE 209	Electrotechnology	3	P - PHYS 142 or equivalent					
MIME 260	Materials Science and Engineering	3						
MIME 329	Mining Geology	2	P - EPSC 221, MIME 200 and instructor permission					
MIME 340	Applied Fluid Dynamics	3	-					
CS	Complementary Studies Group B (HSSML) - 2*	3	_					
	- ( · · · · · · · · · · · · · · · · · ·		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 341	Introduction to Mineral Processing	3	P - MIME 200 or MIME 250					
WIIWE 341	introduction to Milherari rocessing		Prerequisites/Co-requisites					
MIME 291	Industrial Work Period 2	2	P - MIME 290					
IVIIIVIL 291	Industrial Work Feriou 2							
CIVE 200	Civil Engineering System Analysis		P - COMP 208 / C - MATH 264					
CIVE 208	Civil Engineering System Analysis	3						
FACC 400 MIME 330	Engineering Professional Practice Mining Geotechnics	1 3	P - FACC 100, FACC 250**, and 60 program credits P - MIME 323					
MIME 421	Rock Mechanics	3	P - MIME 323, instructor permission					
MIME 425	Applied Stochastic Orebody Modelling	3	P - MPMC 326 and MPMC 329					
MIME xxx	Technical Complementary	3	1 - WI WO 320 and WI WO 323					
IVIIIVIL XXX	reclinical Complementary		Prerequisites/Co-requisites					
MIME 392	Industrial Mark Deried 2	2 credits	•					
	Industrial Work Period 3		P - MIME 291, 75 program credits					
11th Term (S	•		Prerequisites/Co-requisites					
MIME 419	Surface Mining	3	P - MIME 322, MIME 325, MIME 333					
MIME 422	Mine Ventilation	3	P - MIME 340  D. MIME 322 MIME 325 MIME 323					
MIME 424	Underground Mining Methods	3	P - MIME 322, MIME 325, MIME 333					
MIME 428	Environmental Mining Engineering	3	P - CIVE 205 and MIME 323					
MIME xxx	Technical Complementary	3 4E avadita	Provenujejtes/Co requisites					
MINAT 440	Otantania Mina Diamaia a Milita Library (1)		Prerequisites/Co-requisites					
MIME 413	Strategic Mine Planning With Uncertainty	3	P - MIME 325, MIME 419, MPMC 326, and MPMC 329					
MIME 426	Mine Design and Prefeasibility Study	6	P - MIME 333, MIME 325, MIME 421 or MPMC 321					
MIME xxx	Technical Complementary	3 3						
CS	Complementary Studies Group A (Impact)*							

<sup>\*\*</sup>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.