

## Non-CEGEP Entry

		<b>15 credits</b>	<b>Prerequisites/Co-requisites</b>
CHEM 110	General Chemistry 1	4	-
FACC 100	Introduction to the Engineering Profession	1	-
MATH 133	Linear Algebra and Geometry	3	-
MATH 140	Calculus 1	3	-
PHYS 131	Mechanics and Waves	4	C - MATH 140
		<b>15 credits</b>	<b>Prerequisites/Co-requisites</b>
CHEM 120	General Chemistry 2	4	-
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	-
		<b>15 credits</b>	<b>Prerequisites/Co-requisites</b>
CCOM 206	Communication in Engineering	3	-
MATH 262	Intermediate Calculus	3	P - MATH 141, MATH 133
MECH 289	Design Graphics	3	-
MIME 250	Introduction to Extractive Metallurgy	3	C - CCOM 206
MIME 261	Structure of Materials	3	-
		<b>15 credits</b>	<b>Prerequisites/Co-requisites</b>
CHEM 233	Topics in Physical Chemistry	3	-
CIVE 205	Statics	3	-
MIME 209	Mathematical Applications	3	-
MIME 212	Engineering Thermodynamics	3	-
MIME 341	Introduction to Mineral Processing	3	P - MIME 200 or MIME 250
		<b>3 credits</b>	<b>Prerequisites/Co-requisites</b>
MATH 263	Ordinary Differential Equations for Engineers	3	C - MATH 262
		<b>17 credits</b>	<b>Prerequisites/Co-requisites</b>
CIVE 207	Solid Mechanics	4	P - CIVE 205 or MECH 210
COMP 208	Computers in Engineering	3	P - MATH 140, MATH 141
ECSE 461	Electric Machinery	3	-
MIME 356	Heat, Mass and Fluid Flow	4	P - MIME 212
MIME 360	Phase Transformations: Solids	3	P - MIME 260 or MIME 261 / C - MIME 212
		<b>2 credits</b>	<b>Prerequisites/Co-requisites</b>
MIME 280	Industrial Training 1	2	P - 40 program credits
		<b>15 credits</b>	<b>Prerequisites/Co-requisites</b>
FACC 300	Engineering Economy	3	-
MIME 317	Analytical and Characterization Techniques	3	P - MIME 261
MIME 345	Applications of Polymers	3	P - MIME 261
MIME 350	Extractive Metallurgical Engineering	3	P - MIME 200 or MIME 250, MIME 212
CS	Complementary Studies Group A (Impact)	3	-
		<b>15 credits</b>	<b>Prerequisites/Co-requisites</b>
MATH 264			

		<b>Credits</b>	<b>Prerequisites/Co-requisites</b>
CIVE 512	Advanced Civil Engineering Materials	3	P - CIVE 202
MECH 530	Mechanics of Composite Materials	3	P - MECH 321
MIME 410	Research Project	3	P - Recommendation of instructor
MIME 470	Engineering Biomaterials	3	P - MIME 261
MIME 512	Corrosion and Degradation of Materials	3	P - MIME 261 and MIME 352
MIME 515	Material Surfaces: A Biomimetic Approach	3	
or CHEE 515	Material Surfaces: A Biomimetic Approach	3	
MIME 542	Transmission Electron Microscopy	3	P - Permission of instructor
MIME 544	Analysis: Mineral Processing Systems 1	3	P - MIME 341
MIME 545	Analysis: Mineral Processing Systems 2	3	P - MIME 341
MIME 551	Electrochemical Processing	3	P - MIME 352
MIME 556	Sustainable Materials Processing	3	P - Permission of instructor
MIME 558	Engineering Nanomaterials	3	P - MIME 260or MIME 261, MIME 362
MIME 559	Aluminum Physical Metallurgy	3	P - MIME 360, MIME 362
MIME 560	Joining Processes	3	P - MIME 250, MIME 360
MIME 561	Advanced Materials Design	3	P - MIME 362
MIME 563	Hot Deformation of Metals	3	P - MIME 360, MIME 362
MIME 565	Aerospace Metallic-Materials and Manufacturing Processes	3	P - MIME 260 or MIME 261
MIME 568	Topics in Advanced Materials	3	P - MIME 362
MIME 569	Electron Beam Analysis of Materials	3	