Materials Engineering Curriculum - Fall 2013

Non-CEGEP Entry

			Non-CLGEF Linkly
1st Semest	er (Fall)	15 credits	Prerequisites/Co-requisites
CHEM 110	General Chemistry 1	4	-
FACC 100	Introduction to the Engineering Profession	1	
MATH 133	Linear Algebra and Geometry	3	
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MATH 140	Calculus 1	3	•
PHYS 131	Mechanics and Waves	4	C - MATH 140
2nd Semes	ter (Winter)	15 credits	Prerequisites/Co-requisites
CHEM 120	General Chemistry 2	4	
MATH 141	Calculus 2		P -MATH 140
		4	
PHYS 142	Electromagnetism and Optics	4	P - PHYS 131 / C - MATH 141
CS	Complementary Studies Group B (HSSML) - 1	3	-
3rd Semest	ter (Fall)	15 credits	Prerequisites/Co-requisites
CCOM 206	Communication in Engineering	3	
MATH 262			D. MATILAAA MATILAGO
	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	•
4th Semest	er (Winter)	15 credits	Prerequisites/Co-requisites
			1 Terequisites/Co-requisites
CHEM 233	Topics in Physical Chemistry	3	<u> </u>
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
	ter (Summer)	3 credits	Prerequisites/Co-requisites
MATH 263	Ordinary Differential Equations for Engineers	3	C - MATH 262
6th Semest	ter (Fall)	17 credits	Prerequisites/Co-requisites
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
7th Semest		2 credits	Prerequisites/Co-requisites
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		•	D 40
MIME 280	Industrial Training 1	2	P - 40 program credits
	Industrial Training 1 ter (Summer)	2 15 credits	P - 40 program credits Prerequisites/Co-requisites
	ter (Summer)	15 credits	
8th Semest FACC 300	Err (Summer) Engineering Economy	15 credits 3	Prerequisites/Co-requisites
8th Semest FACC 300 MIME 317	Eer (Summer) Engineering Economy Analytical and Characterization Techniques	15 credits 3 3	Prerequisites/Co-requisites - P - MIME 261
8th Semest FACC 300 MIME 317 MIME 345	Err (Summer) Engineering Economy Analytical and Characterization Techniques Applications of Polymers	15 credits 3 3 3	Prerequisites/Co-requisites - P - MIME 261 P - MIME 261
8th Semest FACC 300 MIME 317 MIME 345 MIME 350	ter (Summer) Engineering Economy Analytical and Characterization Techniques Applications of Polymers Extractive Metallurgical Engineering	15 credits 3 3 3 3	Prerequisites/Co-requisites - P - MIME 261
8th Semest FACC 300 MIME 317 MIME 345	Err (Summer) Engineering Economy Analytical and Characterization Techniques Applications of Polymers	15 credits 3 3 3	Prerequisites/Co-requisites - P - MIME 261 P - MIME 261
8th Semest FACC 300 MIME 317 MIME 345 MIME 350 CS	Er (Summer) Engineering Economy Analytical and Characterization Techniques Applications of Polymers Extractive Metallurgical Engineering Complementary Studies Group A (Impact)	15 credits 3 3 3 3	Prerequisites/Co-requisites - P - MIME 261 P - MIME 261 P - MIME 200 or MIME 250, MIME 212 -
8th Semest FACC 300 MIME 317 MIME 345 MIME 350 CS 9th Semest	ter (Summer) Engineering Economy Analytical and Characterization Techniques Applications of Polymers Extractive Metallurgical Engineering Complementary Studies Group A (Impact) ter (Fall)	15 credits 3 3 3 3 3 15 credits	Prerequisites/Co-requisites - P - MIME 261 P - MIME 261 P - MIME 200 or MIME 250, MIME 212 - Prerequisites/Co-requisites
FACC 300 MIME 317 MIME 345 MIME 350 CS 9th Semest MATH 264	ter (Summer) Engineering Economy Analytical and Characterization Techniques Applications of Polymers Extractive Metallurgical Engineering Complementary Studies Group A (Impact) ter (Fall) Advanced Calculus for Engineers	15 credits 3 3 3 3 3 15 credits	Prerequisites/Co-requisites - P - MIME 261 P - MIME 261 P - MIME 200 or MIME 250, MIME 212 - Prerequisites/Co-requisites P - MATH 262 / C - MATH 263
8th Semest FACC 300 MIME 317 MIME 345 MIME 350 CS 9th Semest	ter (Summer) Engineering Economy Analytical and Characterization Techniques Applications of Polymers Extractive Metallurgical Engineering Complementary Studies Group A (Impact) ter (Fall)	15 credits 3 3 3 3 3 15 credits	Prerequisites/Co-requisites - P - MIME 261 P - MIME 261 P - MIME 200 or MIME 250, MIME 212 - Prerequisites/Co-requisites P - MATH 262 / C - MATH 263 P - MIME 356
8th Semest FACC 300 MIME 317 MIME 345 MIME 350 CS 9th Semest MATH 264 MIME 311	Err (Summer) Engineering Economy Analytical and Characterization Techniques Applications of Polymers Extractive Metallurgical Engineering Complementary Studies Group A (Impact) Err (Fall) Advanced Calculus for Engineers Modelling and Automatic Control	15 credits 3 3 3 3 3 3 15 credits 3 3	Prerequisites/Co-requisites - P - MIME 261 P - MIME 261 P - MIME 200 or MIME 250, MIME 212 - Prerequisites/Co-requisites P - MATH 262 / C - MATH 263
FACC 300 MIME 317 MIME 345 MIME 350 CS 9th Semest MATH 264 MIME 351 MIME 352	ter (Summer) Engineering Economy Analytical and Characterization Techniques Applications of Polymers Extractive Metallurgical Engineering Complementary Studies Group A (Impact) ter (Fall) Advanced Calculus for Engineers	15 credits 3 3 3 3 3 15 credits	Prerequisites/Co-requisites - P - MIME 261 P - MIME 261 P - MIME 200 or MIME 250, MIME 212 - Prerequisites/Co-requisites P - MATH 262 / C - MATH 263 P - MIME 356 P - CHEM 233, MIME 200 or MIME 250, MIME 212, MIME 356
FACC 300 MIME 317 MIME 345 MIME 350 CS 9th Semest MATH 264 MIME 351 MIME 352	Err (Summer) Engineering Economy Analytical and Characterization Techniques Applications of Polymers Extractive Metallurgical Engineering Complementary Studies Group A (Impact) Err (Fall) Advanced Calculus for Engineers Modelling and Automatic Control	15 credits 3 3 3 3 3 15 credits 3 3 3 3	Prerequisites/Co-requisites - P - MIME 261 P - MIME 261 P - MIME 200 or MIME 250, MIME 212 - Prerequisites/Co-requisites P - MATH 262 / C - MATH 263 P - MIME 356 P - CHEM 233, MIME 200 or MIME 250, MIME 212, MIME 356
FACC 300 MIME 317 MIME 345 MIME 350 CS 9th Semest MATH 264 MIME 351 MIME 352 MIME 362	Err (Summer) Engineering Economy Analytical and Characterization Techniques Applications of Polymers Extractive Metallurgical Engineering Complementary Studies Group A (Impact) ter (Fall) Advanced Calculus for Engineers Modelling and Automatic Control Hydrochemical Processing Mechanical Properties	15 credits 3 3 3 3 3 15 credits 3 3 3 3 3 3 3 3	Prerequisites/Co-requisites - P - MIME 261 P - MIME 261 P - MIME 200 or MIME 250, MIME 212 - Prerequisites/Co-requisites P - MATH 262 / C - MATH 263 P - MIME 356 P - CHEM 233, MIME 200 or MIME 250, MIME 212, MIME 356 P - MIME 360
FACC 300 MIME 317 MIME 345 MIME 350 CS 9th Semest MATH 264 MIME 352 MIME 362 MIME 465	Err (Summer) Engineering Economy Analytical and Characterization Techniques Applications of Polymers Extractive Metallurgical Engineering Complementary Studies Group A (Impact) ter (Fall) Advanced Calculus for Engineers Modelling and Automatic Control Hydrochemical Processing Mechanical Properties Metallic and Ceramic Powders Processing	15 credits 3 3 3 3 3 15 credits 3 3 3 3 3 3 3 3 3	Prerequisites/Co-requisites - P - MIME 261 P - MIME 261 P - MIME 200 or MIME 250, MIME 212 - Prerequisites/Co-requisites P - MATH 262 / C - MATH 263 P - MIME 356 P - CHEM 233, MIME 200 or MIME 250, MIME 212, MIME 356 P - MIME 360 P - MIME 360 P - MIME 360
RACC 300 MIME 317 MIME 345 MIME 350 CS Sth Semest MATH 264 MIME 352 MIME 362 MIME 465 10th Semest	Err (Summer) Engineering Economy Analytical and Characterization Techniques Applications of Polymers Extractive Metallurgical Engineering Complementary Studies Group A (Impact) Err (Fall) Advanced Calculus for Engineers Modelling and Automatic Control Hydrochemical Processing Mechanical Properties Metallic and Ceramic Powders Processing Ster (Winter)	15 credits 3 3 3 3 3 15 credits 3 3 15 credits 3 3 15 credits	Prerequisites/Co-requisites - P - MIME 261 P - MIME 261 P - MIME 200 or MIME 250, MIME 212 - Prerequisites/Co-requisites P - MATH 262 / C - MATH 263 P - MIME 356 P - CHEM 233, MIME 200 or MIME 250, MIME 212, MIME 356 P - MIME 360 P - MIME 360 P - MIME 360 Prerequisites/Co-requisites
FACC 300 MIME 317 MIME 345 MIME 350 CS 9th Semest MATH 264 MIME 352 MIME 362 MIME 465 10th Semest MIME 467	Err (Summer) Engineering Economy Analytical and Characterization Techniques Applications of Polymers Extractive Metallurgical Engineering Complementary Studies Group A (Impact) Err (Fall) Advanced Calculus for Engineers Modelling and Automatic Control Hydrochemical Processing Mechanical Properties Metallic and Ceramic Powders Processing Ster (Winter) Electronic Properties of Materials	15 credits 3 3 3 3 3 15 credits 3 3 15 credits 3 3 3 15 credits 3	Prerequisites/Co-requisites - P - MIME 261 P - MIME 261 P - MIME 200 or MIME 250, MIME 212 - Prerequisites/Co-requisites P - MATH 262 / C - MATH 263 P - MIME 356 P - CHEM 233, MIME 200 or MIME 250, MIME 212, MIME 356 P - MIME 360 P - MIME 360 P - MIME 360 Prerequisites/Co-requisites P - MIME 261, MATH 263
RACC 300 MIME 317 MIME 345 MIME 350 CS Sth Semest MATH 264 MIME 352 MIME 362 MIME 465 10th Semest	Err (Summer) Engineering Economy Analytical and Characterization Techniques Applications of Polymers Extractive Metallurgical Engineering Complementary Studies Group A (Impact) Err (Fall) Advanced Calculus for Engineers Modelling and Automatic Control Hydrochemical Processing Mechanical Properties Metallic and Ceramic Powders Processing Ster (Winter)	15 credits 3 3 3 3 3 15 credits 3 3 15 credits 3 3 15 credits	Prerequisites/Co-requisites - P - MIME 261 P - MIME 261 P - MIME 200 or MIME 250, MIME 212 - Prerequisites/Co-requisites P - MATH 262 / C - MATH 263 P - MIME 356 P - CHEM 233, MIME 200 or MIME 250, MIME 212, MIME 356 P - MIME 360 P - MIME 360 P - MIME 360 Prerequisites/Co-requisites
FACC 300 MIME 317 MIME 345 MIME 350 CS 9th Semest MATH 264 MIME 352 MIME 362 MIME 465 10th Semest MIME 467	Ere (Summer) Engineering Economy Analytical and Characterization Techniques Applications of Polymers Extractive Metallurgical Engineering Complementary Studies Group A (Impact) Ere (Fall) Advanced Calculus for Engineers Modelling and Automatic Control Hydrochemical Processing Mechanical Properties Metallic and Ceramic Powders Processing Ster (Winter) Electronic Properties of Materials Analysis, Modelling and Optimization in Mineral Processing	15 credits 3 3 3 3 3 15 credits 3 3 15 credits 3 3 3 15 credits 3	Prerequisites/Co-requisites - P - MIME 261 P - MIME 261 P - MIME 200 or MIME 250, MIME 212 - Prerequisites/Co-requisites P - MATH 262 / C - MATH 263 P - MIME 356 P - CHEM 233, MIME 200 or MIME 250, MIME 212, MIME 356 P - MIME 360 P - MIME 360 P - MIME 360 Prerequisites/Co-requisites P - MIME 261, MATH 263
RACC 300 MIME 317 MIME 345 MIME 350 CS Pth Semest MATH 264 MIME 352 MIME 362 MIME 465 10th Semes MIME 442 MIME 455	Err (Summer) Engineering Economy Analytical and Characterization Techniques Applications of Polymers Extractive Metallurgical Engineering Complementary Studies Group A (Impact) Err (Fall) Advanced Calculus for Engineers Modelling and Automatic Control Hydrochemical Processing Mechanical Properties Metallic and Ceramic Powders Processing Ster (Winter) Electronic Properties of Materials Analysis, Modelling and Optimization in Mineral Processing Advanced Process Engineering	15 credits 3 3 3 3 3 15 credits 3 3 3 15 credits 3 3 3 15 credits 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	Prerequisites/Co-requisites - P - MIME 261 P - MIME 261 P - MIME 200 or MIME 250, MIME 212 - Prerequisites/Co-requisites P - MATH 262 / C - MATH 263 P - MIME 356 P - CHEM 233, MIME 200 or MIME 250, MIME 212, MIME 356 P - MIME 360 P - MIME 360 P - MIME 360 Prerequisites/Co-requisites P - MIME 261, MATH 263 P - MIME 261, MATH 263 P - MIME 341
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RACC 300 MIME 317 MIME 345 MIME 350 CS Pth Semest MATH 264 MIME 351 MIME 352 MIME 465 10th Semes MIME 467 MIME 442 MIME 455 MIME xxx MIME xxx	Err (Summer) Engineering Economy Analytical and Characterization Techniques Applications of Polymers Extractive Metallurgical Engineering Complementary Studies Group A (Impact) Err (Fall) Advanced Calculus for Engineers Modelling and Automatic Control Hydrochemical Processing Mechanical Properties Metallic and Ceramic Powders Processing Ster (Winter) Electronic Properties of Materials Analysis, Modelling and Optimization in Mineral Processing Advanced Process Engineering Technical Complementary Technical Complementary	15 credits 3 3 3 3 3 15 credits 3 3 3 15 credits 3 3 3 15 credits 3 3 3 3 3 3 3 3 3 3	Prerequisites/Co-requisites - P - MIME 261 P - MIME 261 P - MIME 200 or MIME 250, MIME 212 - Prerequisites/Co-requisites P - MATH 262 / C - MATH 263 P - MIME 356 P - CHEM 233, MIME 200 or MIME 250, MIME 212, MIME 356 P - MIME 360 P - MIME 360 P - MIME 360 Prerequisites/Co-requisites P - MIME 261, MATH 263 P - MIME 341 P - MIME 356 -
RATH 264 MIME 350 CS Sth Semest MATH 264 MIME 352 MIME 362 MIME 362 MIME 465 MIME 465 MIME 467 MIME 455 MIME 455 MIME 455 MIME XXX MIME XXX	Err (Summer) Engineering Economy Analytical and Characterization Techniques Applications of Polymers Extractive Metallurgical Engineering Complementary Studies Group A (Impact) Err (Fall) Advanced Calculus for Engineers Modelling and Automatic Control Hydrochemical Processing Mechanical Properties Metallic and Ceramic Powders Processing Ster (Winter) Electronic Properties of Materials Analysis, Modelling and Optimization in Mineral Processing Advanced Process Engineering Technical Complementary	15 credits 3 3 3 3 3 15 credits 3 3 3 15 credits 3 3 3 15 credits 3 3 3 3 3 3 3 3 3 3 3 3 3	Prerequisites/Co-requisites - P - MIME 261 P - MIME 261 P - MIME 200 or MIME 250, MIME 212 - Prerequisites/Co-requisites P - MATH 262 / C - MATH 263 P - MIME 356 P - CHEM 233, MIME 200 or MIME 250, MIME 212, MIME 356 P - MIME 360 P - MIME 360 P - MIME 360 Prerequisites/Co-requisites P - MIME 261, MATH 263 P - MIME 261, MATH 263 P - MIME 341
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RATH 264 MIME 350 CS Sth Semest MATH 264 MIME 352 MIME 362 MIME 362 MIME 465 Sth Semest MIME 465 MIME 465 MIME 455 MIME 455 MIME 455 MIME 455 MIME 455 MIME 380 Sth Semest MIME 380 Sth Semest MIME 380 Sth Semest	Err (Summer) Engineering Economy Analytical and Characterization Techniques Applications of Polymers Extractive Metallurgical Engineering Complementary Studies Group A (Impact) Err (Fall) Advanced Calculus for Engineers Modelling and Automatic Control Hydrochemical Processing Mechanical Properties Metallic and Ceramic Powders Processing Ster (Winter) Electronic Properties of Materials Analysis, Modelling and Optimization in Mineral Processing Advanced Process Engineering Technical Complementary Technical Complementary Ster (Summer) Industrial Training 2 Ster (Fall)	15 credits 3 3 3 3 3 15 credits 3 3 3 15 credits 3 3 3 2 credits 2 2 credits	Prerequisites/Co-requisites - P - MIME 261 P - MIME 261 P - MIME 200 or MIME 250, MIME 212 - Prerequisites/Co-requisites P - MATH 262 / C - MATH 263 P - MIME 356 P - CHEM 233, MIME 200 or MIME 250, MIME 212, MIME 356 P - MIME 360 P - MIME 360 P - MIME 360 Prerequisites/Co-requisites P - MIME 261, MATH 263 P - MIME 356 Prerequisites/Co-requisites P - MIME 356 Prerequisites/Co-requisites P - MIME 280 Prerequisites/Co-requisites
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8th Semest FACC 300 MIME 317 MIME 345 MIME 345 MIME 350 CS 9th Semest MATH 264 MIME 311 MIME 352 MIME 465 10th Semest MIME 442 MIME 455 MIME 442 MIME 455 MIME 442 MIME 455 MIME 480 12th Semest MIME 480 13th Semest	Ere (Summer) Engineering Economy Analytical and Characterization Techniques Applications of Polymers Extractive Metallurgical Engineering Complementary Studies Group A (Impact) Ever (Fall) Advanced Calculus for Engineers Modelling and Automatic Control Hydrochemical Processing Mechanical Properties Metallic and Ceramic Powders Processing Ster (Winter) Electronic Properties of Materials Analysis, Modelling and Optimization in Mineral Processing Advanced Process Engineering Technical Complementary Technical Complementary Ster (Summer) Industrial Training 2 Ster (Fall) Industrial Training 3 Ster (Winter) Engineering Professional Practice Process and Materials Design Steelmaking and Steel Processing	15 credits 3 3 3 3 3 15 credits 3 3 3 15 credits 3 3 3 2 credits 2 17 credits 1 4 3	Prerequisites/Co-requisites - P - MIME 261 P - MIME 261 P - MIME 200 or MIME 250, MIME 212 - Prerequisites/Co-requisites P - MATH 262 / C - MATH 263 P - MIME 356 P - CHEM 233, MIME 200 or MIME 250, MIME 212, MIME 356 P - MIME 360 P - MIME 360 P - MIME 360 Prerequisites/Co-requisites P - MIME 261, MATH 263 P - MIME 341 P - MIME 356 Prerequisites/Co-requisites P - MIME 356 Prerequisites/Co-requisites P - MIME 380 Prerequisites/Co-requisites P - MIME 380 Prerequisites/Co-requisites
Bth Semest FACC 300 MIME 317 MIME 345 MIME 345 MIME 350 CS 9th Semest MATH 264 MIME 311 MIME 352 MIME 362 MIME 465 10th Semest MIME 455 MIME 455 MIME 4xx 11th Semest MIME 380 12th Semest MIME 480 13th Semest FACC 400 MIME 452 MIME 456 MIME xxx	Err (Summer) Engineering Economy Analytical and Characterization Techniques Applications of Polymers Extractive Metallurgical Engineering Complementary Studies Group A (Impact) Err (Fall) Advanced Calculus for Engineers Modelling and Automatic Control Hydrochemical Processing Mechanical Properties Metallic and Ceramic Powders Processing Ster (Winter) Electronic Properties of Materials Analysis, Modelling and Optimization in Mineral Processing Advanced Process Engineering Technical Complementary Technical Complementary Ster (Summer) Industrial Training 2 Ster (Fall) Industrial Training 3 Ster (Winter) Engineering Professional Practice Process and Materials Design	15 credits 3 3 3 3 3 3 15 credits 3 3 3 15 credits 3 3 2 credits 2 2 credits 2 17 credits 1 4 3 3 3	Prerequisites/Co-requisites - P - MIME 261 P - MIME 261 P - MIME 200 or MIME 250, MIME 212 - Prerequisites/Co-requisites P - MATH 262 / C - MATH 263 P - MIME 356 P - CHEM 233, MIME 200 or MIME 250, MIME 212, MIME 356 P - MIME 360 P - MIME 360 P - MIME 360 Prerequisites/Co-requisites P - MIME 261, MATH 263 P - MIME 341 P - MIME 356 Prerequisites/Co-requisites P - MIME 380 Prerequisites/Co-requisites P - MIME 380 Prerequisites/Co-requisites P - MIME 380 Prerequisites/Co-requisites P - FACC 100, 60 program credits
8th Semest FACC 300 MIME 317 MIME 345 MIME 345 MIME 350 CS 9th Semest MATH 264 MIME 311 MIME 352 MIME 465 10th Semest MIME 442 MIME 455 MIME 442 MIME 455 MIME 442 MIME 455 MIME 480 12th Semest MIME 480 13th Semest	Ere (Summer) Engineering Economy Analytical and Characterization Techniques Applications of Polymers Extractive Metallurgical Engineering Complementary Studies Group A (Impact) Ever (Fall) Advanced Calculus for Engineers Modelling and Automatic Control Hydrochemical Processing Mechanical Properties Metallic and Ceramic Powders Processing Ster (Winter) Electronic Properties of Materials Analysis, Modelling and Optimization in Mineral Processing Advanced Process Engineering Technical Complementary Technical Complementary Ster (Summer) Industrial Training 2 Ster (Fall) Industrial Training 3 Ster (Winter) Engineering Professional Practice Process and Materials Design Steelmaking and Steel Processing	15 credits 3 3 3 3 3 15 credits 3 3 3 15 credits 3 3 3 2 credits 2 17 credits 1 4 3	Prerequisites/Co-requisites - P - MIME 261 P - MIME 261 P - MIME 200 or MIME 250, MIME 212 - Prerequisites/Co-requisites P - MATH 262 / C - MATH 263 P - MIME 356 P - CHEM 233, MIME 200 or MIME 250, MIME 212, MIME 356 P - MIME 360 P - MIME 360 P - MIME 360 Prerequisites/Co-requisites P - MIME 261, MATH 263 P - MIME 341 P - MIME 356 Prerequisites/Co-requisites P - MIME 380 Prerequisites/Co-requisites P - MIME 380 Prerequisites/Co-requisites P - MIME 380 Prerequisites/Co-requisites P - FACC 100, 60 program credits
Bth Semest FACC 300 MIME 317 MIME 345 MIME 345 MIME 350 CS 9th Semest MATH 264 MIME 311 MIME 352 MIME 362 MIME 465 10th Semest MIME 455 MIME 455 MIME 4xx 11th Semest MIME 380 12th Semest MIME 480 13th Semest FACC 400 MIME 452 MIME 456 MIME xxx	Ere (Summer) Engineering Economy Analytical and Characterization Techniques Applications of Polymers Extractive Metallurgical Engineering Complementary Studies Group A (Impact) Ever (Fall) Advanced Calculus for Engineers Modelling and Automatic Control Hydrochemical Processing Mechanical Properties Metallic and Ceramic Powders Processing Ster (Winter) Electronic Properties of Materials Analysis, Modelling and Optimization in Mineral Processing Advanced Process Engineering Technical Complementary Technical Complementary Ster (Summer) Industrial Training 2 Ster (Fall) Industrial Training 3 Ster (Winter) Engineering Professional Practice Process and Materials Design Steelmaking and Steel Processing Technical Complementary	15 credits 3 3 3 3 3 3 15 credits 3 3 3 15 credits 3 3 2 credits 2 2 credits 2 17 credits 1 4 3 3 3	Prerequisites/Co-requisites - P - MIME 261 P - MIME 261 P - MIME 200 or MIME 250, MIME 212 - Prerequisites/Co-requisites P - MATH 262 / C - MATH 263 P - MIME 356 P - CHEM 233, MIME 200 or MIME 250, MIME 212, MIME 356 P - MIME 360 P - MIME 360 P - MIME 360 Prerequisites/Co-requisites P - MIME 261, MATH 263 P - MIME 341 P - MIME 356 Prerequisites/Co-requisites P - MIME 380 Prerequisites/Co-requisites P - MIME 360 / C - MIME 455 -

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). 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 the Academic Programs section).

Technical Complementary Courses - Materials Engineering

9 - 12 credits from the following:

CIVE 512 Advanced Civil Engineering Materials 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 P - (CHEM 233 and MIME 261 and MIME 317) or (CHEE 310 5 Or CHEE 515 Material Surfaces: A Biomimetic Approach 5 Or CHEE 515 Material Surfaces: A Biomimetic Approach 6 Or CHEE 515 Material Surfaces: A Biomimetic Approach 7 Or CHEE 515 Material Surfaces: A Biomimetic Approach 8 Or CHEE 515 Material Surfaces: A Biomimetic Approach 9 Or CHEE 515 Material Surfaces: A Biomimetic Approach 10 Or CHEE 515 Material Surfaces: A Biomimetic Approach 11 Or CHEE 380) 12 Or CHEE 380) 13 P - Permission of instructor 14 MIME 542 Transmission Electron Microscopy 15 P - MIME 341 16 MIME 544 Analysis: Mineral Processing Systems 1 16 P - MIME 341 17 MIME 545 Analysis: Mineral Processing Systems 2 17 Or MIME 352 18 P - MIME 352 19 Or MIME 352 10 P - MIME 352 10 P - MIME 352 11 MIME 556 Sustainable Materials Processing 10 P - MIME 260 or MIME 261, MIME 362 11 MIME 559 Aluminum Physical Metallurgy 11 P - MIME 360 12 MIME 561 Advanced Materials Design 13 P - MIME 360 14 MIME 561 Advanced Materials and Manufacturing Processes 15 P - MIME 360 Or MIME 360 16 MIME 563 Hot Deformation of Metals 17 MIME 564 Aerospace Metallic-Materials and Manufacturing Processes 18 P - MIME 360 19 MIME 362 10 MIME 568 Topics in Advanced Materials 10 P - MIME 362 11 MIME 561 Surface Engineering 11 P - MIME 362 12 MIME 562 Computational Thermodynamics 13 P - MIME 362 14 MIME 571 Computational Thermodynamics 14 P - MIME 362 15 MIME 572 Computational Thermodynamics 15 P - MIME 212			Credits	Prerequisites/Co-requisites
MIME 410Research Project3P - Recommendation of instructorMIME 470Engineering Biomaterials3P - MIME 261MIME 512Corrosion and Degradation of Materials3P - MIME 261 and MIME 352MIME 515Material Surfaces: A Biomimetic Approach3P - (CHEM 233 and MIME 261 and MIME 317) or (CHEE 310or CHEE 515Material Surfaces: A Biomimetic Approach3and CHEE 380)MIME 542Transmission Electron Microscopy3P - Permission of instructorMIME 544Analysis: Mineral Processing Systems 13P - MIME 341MIME 545Analysis: Mineral Processing Systems 23P - MIME 341MIME 551Electrochemical Processing3P - Permission of instructorMIME 556Sustainable Materials Processing3P - Permission of instructorMIME 558Engineering Nanomaterials3P - MIME 260 or MIME 261, MIME 362MIME 559Aluminum Physical Metallurgy3P - MIME 260 or MIME 261, MIME 362MIME 560Joining Processes3P - MIME 360, MIME 362MIME 561Advanced Materials Design3P - MIME 360, MIME 362MIME 563Hot Deformation of Metals3P - MIME 260 or MIME 261MIME 568Topics in Advanced Materials and Manufacturing Processes3P - MIME 260 or MIME 261MIME 569Electron Beam Analysis of Materials3P - MIME 362MIME 567Surface Engineering3P - MIME 362	CIVE 512	Advanced Civil Engineering Materials	3	P - CIVE 202
MIME 470Engineering Biomaterials3P - MIME 261MIME 512Corrosion and Degradation of Materials3P - MIME 261 and MIME 352MIME 515Material Surfaces: A Biomimetic Approach3P - (CHEM 233 and MIME 261 and MIME 317) or (CHEE 310or CHEE 515Material Surfaces: A Biomimetic Approach3and CHEE 380)MIME 542Transmission Electron Microscopy3P - Permission of instructorMIME 544Analysis: Mineral Processing Systems 13P - MIME 341MIME 545Analysis: Mineral Processing Systems 23P - MIME 352MIME 551Electrochemical Processing3P - Permission of instructorMIME 558Sustainable Materials Processing3P - Permission of instructorMIME 559Aluminum Physical Metallurgy3P - MIME 260 or MIME 261, MIME 362MIME 560Joining Processes3P - MIME 360, MIME 360MIME 561Advanced Materials Design3P - MIME 362MIME 563Hot Deformation of Metals3P - MIME 360, MIME 362MIME 568Topics in Advanced Materials and Manufacturing Processes3P - MIME 260 or MIME 261MIME 569Electron Beam Analysis of Materials3P - MIME 362MIME 571Surface Engineering3P - MIME 362	MECH 530	Mechanics of Composite Materials	3	P - MECH 321
MIME 512Corrosion and Degradation of Materials3P - MIME 261 and MIME 352MIME 515Material Surfaces: A Biomimetic Approach3P - (CHEM 233 and MIME 261 and MIME 317) or (CHEE 310or CHEE 515Material Surfaces: A Biomimetic Approach3and CHEE 380)MIME 542Transmission Electron Microscopy3P - Permission of instructorMIME 544Analysis: Mineral Processing Systems 13P - MIME 341MIME 555Electrochemical Processing3P - MIME 352MIME 551Electrochemical Processing3P - Permission of instructorMIME 558Engineering Nanomaterials3P - MIME 260 or MIME 261, MIME 362MIME 559Aluminum Physical Metallurgy3P - MIME 360, MIME 362MIME 560Joining Processes3P - MIME 360MIME 561Advanced Materials Design3P - MIME 362MIME 563Hot Deformation of Metals3P - MIME 360, MIME 362MIME 565Aerospace Metallic-Materials and Manufacturing Processes3P - MIME 360 or MIME 261MIME 568Topics in Advanced Materials3P - MIME 362MIME 569Electron Beam Analysis of Materials3P - MIME 317MIME 571Surface Engineering3P - MIME 362	MIME 410	Research Project	3	P - Recommendation of instructor
MIME 515Material Surfaces: A Biomimetic Approach3P - (CHEM 233 and MIME 261 and MIME 317) or (CHEE 310or CHEE 515Material Surfaces: A Biomimetic Approach3and CHEE 380)MIME 542Transmission Electron Microscopy3P - Permission of instructorMIME 544Analysis: Mineral Processing Systems 13P - MIME 341MIME 545Analysis: Mineral Processing Systems 23P - MIME 352MIME 551Electrochemical Processing3P - Permission of instructorMIME 556Sustainable Materials Processing3P - Permission of instructorMIME 558Engineering Nanomaterials3P - MIME 260or MIME 261, MIME 362MIME 559Aluminum Physical Metallurgy3P - MIME 360, MIME 362MIME 560Joining Processes3P - MIME 250, MIME 360MIME 561Advanced Materials Design3P - MIME 362MIME 563Aerospace Metallic-Materials and Manufacturing Processes3P - MIME 260 or MIME 261MIME 568Topics in Advanced Materials3P - MIME 362MIME 569Electron Beam Analysis of Materials3P - MIME 362MIME 571Surface Engineering3P - MIME 362	MIME 470	Engineering Biomaterials	3	P - MIME 261
or CHEE 515Material Surfaces: A Biomimetic Approach3and CHEE 380)MIME 542Transmission Electron Microscopy3P - Permission of instructorMIME 544Analysis: Mineral Processing Systems 13P - MIME 341MIME 545Analysis: Mineral Processing Systems 23P - MIME 341MIME 551Electrochemical Processing3P - MIME 352MIME 556Sustainable Materials Processing3P - Permission of instructorMIME 558Engineering Nanomaterials3P - MIME 260or MIME 261, MIME 362MIME 559Aluminum Physical Metallurgy3P - MIME 360, MIME 362MIME 560Joining Processes3P - MIME 360MIME 561Advanced Materials Design3P - MIME 362MIME 563Hot Deformation of Metals3P - MIME 360, MIME 362MIME 565Aerospace Metallic-Materials and Manufacturing Processes3P - MIME 362MIME 568Topics in Advanced Materials3P - MIME 362MIME 569Electron Beam Analysis of Materials3P - MIME 317MIME 571Surface Engineering3P - MIME 362	MIME 512	Corrosion and Degradation of Materials	3	P - MIME 261 and MIME 352
MIME 542 Transmission Electron Microscopy MIME 544 Analysis: Mineral Processing Systems 1 MIME 545 Analysis: Mineral Processing Systems 2 MIME 546 Analysis: Mineral Processing Systems 2 MIME 551 Electrochemical Processing MIME 556 Sustainable Materials Processing MIME 558 Engineering Nanomaterials MIME 559 Aluminum Physical Metallurgy MIME 550 Joining Processes MIME 560 Joining Processes MIME 561 Advanced Materials Design MIME 563 Hot Deformation of Metals MIME 565 Aerospace Metallic-Materials and Manufacturing Processes MIME 568 Topics in Advanced Materials MIME 569 Electron Beam Analysis of Materials MIME 571 Surface Engineering 3 P - Permission of instructor 3 P - MIME 361 3 P - MIME 362 3 P - MIME 360, MIME 362 3 P - MIME 360, MIME 360 MIME 360 Or MIME 360 MIME 361 Advanced Materials and Manufacturing Processes 3 P - MIME 360 or MIME 261 MIME 362 MIME 363 P - MIME 362 MIME 364 Topics in Advanced Materials 3 P - MIME 367 MIME 367 Surface Engineering 3 P - MIME 362	MIME 515	Material Surfaces: A Biomimetic Approach	3	P - (CHEM 233 and MIME 261 and MIME 317) or (CHEE 310
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 P - MIME 317 MIME 571 Surface Engineering 3 P - MIME 362	or CHEE 515	Material Surfaces: A Biomimetic Approach	3	and CHEE 380)
MIME 545 Analysis: Mineral Processing Systems 2 MIME 551 Electrochemical Processing MIME 556 Sustainable Materials Processing MIME 558 Engineering Nanomaterials MIME 559 Aluminum Physical Metallurgy MIME 560 Joining Processes MIME 561 Advanced Materials Design MIME 563 Hot Deformation of Metals MIME 565 Aerospace Metallic-Materials and Manufacturing Processes MIME 568 Topics in Advanced Materials MIME 569 Electron Beam Analysis of Materials MIME 571 Surface Engineering 3 P - MIME 341 3 P - MIME 352 3 P - MIME 360 MIME 362 3 P - MIME 360, MIME 360 MIME 360 MIME 362 MIME 361 Aerospace Metallic-Materials and Manufacturing Processes MIME 568 Topics in Advanced Materials MIME 569 Electron Beam Analysis of Materials MIME 571 Surface Engineering 3 P - MIME 362 MIME 362	MIME 542	Transmission Electron Microscopy	3	P - Permission of instructor
MIME 551 Electrochemical Processing MIME 556 Sustainable Materials Processing MIME 558 Engineering Nanomaterials MIME 559 Aluminum Physical Metallurgy MIME 560 Joining Processes MIME 561 Advanced Materials Design MIME 563 Hot Deformation of Metals MIME 565 Aerospace Metallic-Materials and Manufacturing Processes MIME 568 Topics in Advanced Materials MIME 569 Electron Beam Analysis of Materials MIME 571 Surface Engineering 3 P - MIME 352 P - Permission of instructor 3 P - MIME 260 or MIME 362 MIME 360 MIME 360 MIME 360 MIME 360 MIME 361 MIME 362 MIME 362 MIME 362 MIME 363 MIME 364 MIME 365 MIME 365 MIME 365 MIME 366 MIME 366 MIME 366 MIME 367 MIME 368 MIME 368 MIME 368 MIME 369 Electron Beam Analysis of Materials MIME 360 MIME 360 MIME 360	MIME 544	Analysis: Mineral Processing Systems 1	3	P - MIME 341
MIME 556 Sustainable Materials Processing MIME 558 Engineering Nanomaterials Aluminum Physical Metallurgy MIME 560 Joining Processes MIME 561 Advanced Materials Design MIME 563 Hot Deformation of Metals MIME 565 Aerospace Metallic-Materials and Manufacturing Processes MIME 568 Topics in Advanced Materials MIME 569 Electron Beam Analysis of Materials MIME 571 Surface Engineering 3 P - Permission of instructor 3 P - MIME 260 or MIME 362 P - MIME 360, MIME 360 MIME 362 P - MIME 360, MIME 362 MIME 365 Aerospace Metallic-Materials and Manufacturing Processes MIME 568 Topics in Advanced Materials MIME 569 Electron Beam Analysis of Materials MIME 571 Surface Engineering 3 P - Permission of instructor 3 P - MIME 360, MIME 362	MIME 545	Analysis: Mineral Processing Systems 2	3	P - MIME 341
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 P - MIME 317 MIME 571 Surface Engineering 3 P - MIME 362	MIME 551	Electrochemical Processing	3	P - MIME 352
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 P - MIME 317 MIME 571 Surface Engineering 3 P - MIME 362	MIME 556	Sustainable Materials Processing	3	P - Permission of instructor
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 P - MIME 317 MIME 571 Surface Engineering 3 P - MIME 362	MIME 558	Engineering Nanomaterials	3	P - MIME 260or MIME 261, MIME 362
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 P - MIME 317 MIME 571 Surface Engineering 3 P - MIME 362	MIME 559	Aluminum Physical Metallurgy	3	P - MIME 360, 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 P - MIME 317 MIME 571 Surface Engineering 3 P - MIME 362	MIME 560	Joining Processes	3	P - MIME 250, MIME 360
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 P - MIME 317 MIME 571 Surface Engineering 3 P - MIME 362	MIME 561	Advanced Materials Design	3	P - MIME 362
MIME 568Topics in Advanced Materials3P - MIME 362MIME 569Electron Beam Analysis of Materials3P - MIME 317MIME 571Surface Engineering3P - MIME 362	MIME 563	Hot Deformation of Metals	3	P - MIME 360, MIME 362
MIME 569Electron Beam Analysis of Materials3P - MIME 317MIME 571Surface Engineering3P - MIME 362	MIME 565	Aerospace Metallic-Materials and Manufacturing Processes	3	P - MIME 260 or MIME 261
MIME 571 Surface Engineering 3 P - MIME 362	MIME 568	Topics in Advanced Materials	3	P - MIME 362
	MIME 569	Electron Beam Analysis of Materials	3	P - MIME 317
MIME 572 Computational Thermodynamics 3 P - MIME 212	MIME 571	Surface Engineering	3	P - MIME 362
	MIME 572	Computational Thermodynamics	3	P - MIME 212

0 - 3 credits from the following:

		Credits	Prerequisites/Co-requisites
BMDE 504	Biomaterials and Bioperformance	3	Restriction: Year 3 students
CHEM 574	Introductory Polymer Chemistry	3	P - CHEM 233
CHEM 585	Colloid Chemistry	3	P - CHEM 345, MATH 233, MATH 315, PHYS 241, PHYS 242
PHYS 558	Solid State Physics	3	Restriction: Year 3 students

Last update: February 14, 2013

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