Computer Engineering Curriculum - Fall 2017

Non-CEGEP Entry

Int Terre (Fail) 14 credits Prerequisites MTH 140 Calculus P - A course in functions MTH 141 Calculus P - High achonications MTH 143 Calculus P - High achonications MTH 145 Calculus P - High achonications MTH 140 Calculus P - High achonications 2nd Torm (Winter) 13 credits Prerequisites/Co-requisites 2nd Terre (Winter) 13 credits P - High achonications 2nd Terre (Winter) 14 credits P - Hift S 131 / C - MATH 141 Calculus 2 Introduction to botware Development - 2nd Terre (Fail) P - Hift S 131 / C - MATH 141 Calculus 2 Introduction to botware Development - 2nd Terre (Fail) 15 credits P - PHift S 131 / C - MATH 141 2nd Terre (Fail) 3 - P - PHift S 131 / C - MATH 141 - 2nd Terre (Fail) 3 - P - PHift S 131 / C - MATH 142 - 2nd Terre (Fail) 3 - P - FACC 100 credits P - FACC 100 credits 2nd Terre (Fail) 3 - P - FACC 100 credits P - FACC 100 credits 2nd Terre (Winter) 11 credits P - FCSE 200 2nd Terre (Winter) 11 credits P - FCSE 200 2nd Terre (Winter) 11 credits P - FCSE 200 <				NOII-CEGEF EIILIY
MATH 133 Linear Agebra and Geometry 3 P - A course in functions MATH 140 Calculus course (MATH 140) 3 P - High school calculus MATH 140 Calculus course (MATH 140) 3 P - High school calculus Calculus Course (MATH 140) 3 P - Calcage level mathematics and physics or permission of instructor Calculus 22 4 P - Calcage level mathematics and physics or permission of instructor ECSE 202 Introduction to Schware Development 3 - CCCM 203 Campementary Studies Group A (Impact)* 3 - Statistics (Consumination in Engineering 3 - - CCCM 203 Cammunication in Engineering 3 - CCCM 203 Cammunication in Engineering 3 - FACC 250 Responsibilities of the Professional Engineer 3 - FACC 250 Responsibilities of the Professional Engineer 3 - FACC 250 Responsibilities of the Professional Engineer 3 - FACC 250 Responsibilities of the Professional Engineer 3 -	1st Term (Fall)		14 credits	Prerequisites/Co-requisites
MATH 40 Calculus 1 3 P - High school calculus PHYS 131 Mechanics and Waves 4 C - Calculus course [MATH 140] C8 Complementary Studies Group B (HSSML) - 1* 3 - C4T ETM (Winter) 118 creatils Prerequisites/Co-requisites CHEM 120 General Chemisty 2 4 P - College level mathematics and physics or permission of instructor CSE 202 Entoromytochronic to Schware Development 3 - MATH 141 Calculus 2 4 P - MATH 140 CSE 200 Electromagnetism and Optics 4 P - PHYS 1412 Electromagnetism and Optics C2004 208 Communication in Engineering 3 - CSE 200 Electric Circuits 1 3 P - PHYS 1412 (C - MATH 263 CSE 200 Electric Circuits 1 3 P - MATH 133, MATH 141 MATH 243 Compatibilies of The Professional Engineers 3 P - MATH 133, MATH 141 MATH 243 Compatibilies Charguitilies/Co-requisitilies/Co-requisities MATH 243 Compater 20 COMP 250 Introduction to Computer Stence 3 P - Forem	FACC 100	Introduction to the Engineering Profession	1	-
PHYS 131 Mechanics and Waves 4 C - Calculus course [MATH 140] CS Complementary Studies Group B (HSSML) - 1* 3 - 2nd Term (Winter) 18 credits Precuguisties/Co-requisites CHEM 120 General Chamistry 2 4 P - College level mathematics and physics or permission of instructor FCRE 202 Introduction to Software Development 3 - ATM 1412 Calculus 2 4 P - MATH 140 CS Complementary Studies Group A (Impact)* 3 - Sd Term (Fail) 15 credits Prerequisites/Co-requisites CCGM 200 Communication in Engineerin 3 - FACC 250 Responsibilities of the Professional Engineer 0 P - FACC 100 or REEE 250 MATH 1432 Computer Science 3 C - MATH 283 Coll P 250 Introduction to Computer Science 3 P - HATH 333, MMTH 140 MAT 1433 Ordinary Differential Equations for Engineers 3 C - MATH 282 COMP 250 Introduction to Computer Science 3 P - ESSE 200 ECSE 261 Introduction to Computer Science 3 P - ECSE 200 ECSE 262 Introduction to Signals and Systems 3 P - ECSE 200 ECSE 261 Endet Companises <	MATH 133	Linear Algebra and Geometry	3	P - A course in functions
Complementary Studies Group B (HSSML) - 1* 3 - 2Nd Term (Winter) 18 credits Prerequisites/Co-requisite	MATH 140	Calculus 1	3	P - High school calculus
Intermediation 18 credits Preclujisties/Co-requisites CHEM 120 General Chemistry 2 4 P - College level mathematics and physics or permission of instructor CRE 202 Introduction to Software Development 3 - AMT 141 Calculus 2 4 P - MATH 140 Charles 4 P - PMTS 131 / C - MATH 141 CS Communication in Engineering 3 - CCCM 200 Communication in Engineering 3 - CCCE 200 Electric Circuits 1 3 P - PHYS 142 / C - MATH 283 CCCE 200 Electric Circuits 1 3 P - FACC 100 or BREE 250 MATH 232 Intermediate Calculus 3 P - MATH 133, MATH 141 MATH 243 Confinancy Differential Equations for Engineers 3 C - MATH 282 Ath Term (Winter) 18 credits P - ECSE 200 ECSE 200 ECSE 201 Introduction to Computer Science 3 P - ECSE 200 ECSE 202 Introduction to Computer Science 3 P - ECSE 200 ECSE 204 Introduction to Computer Science 3	PHYS 131	Mechanics and Waves	4	C - Calculus course [MATH 140]
Intermediation 18 credits Preclujisties/Co-requisites CHEM 120 General Chemistry 2 4 P - College level mathematics and physics or permission of instructor CRE 202 Introduction to Software Development 3 - AMT 141 Calculus 2 4 P - MATH 140 Charles 4 P - PMTS 131 / C - MATH 141 CS Communication in Engineering 3 - CCCM 200 Communication in Engineering 3 - CCCE 200 Electric Circuits 1 3 P - PHYS 142 / C - MATH 283 CCCE 200 Electric Circuits 1 3 P - FACC 100 or BREE 250 MATH 232 Intermediate Calculus 3 P - MATH 133, MATH 141 MATH 243 Confinancy Differential Equations for Engineers 3 C - MATH 282 Ath Term (Winter) 18 credits P - ECSE 200 ECSE 200 ECSE 201 Introduction to Computer Science 3 P - ECSE 200 ECSE 202 Introduction to Computer Science 3 P - ECSE 200 ECSE 204 Introduction to Computer Science 3	CS		3	•
CHEM 120 General Chemistry 2 4 P - College level mathematics and physics or permission of instructor ECSE 202 Introduction to Software Development 3 - MATH 141 Calculus 2 4 P - HMYS 142 Exectionagnetism and Optics MATH 141 Calculus 2 4 P - HMYS 143 - GM 2000 Complementary Studies Group A (Impact)* 3 - GM 2000 Exectionagnetism and Optics 3 P - PHYS 142 / C - MATH 263 EGSE 200 Exection 2 P - PHYS 142 / C - MATH 263 - EGSE 200 Exection 2 P - PHYS 142 / C - MATH 263 - FACE 250 Responsibilities of the Professional Engineers 3 - - FACE 250 Responsibilities of the Professional Engineers 3 P - EACT 100 or BREE 250 - MATH 282 Introduction to Computer Science 3 P - Feanilative Xoh TH 133, MATH 140, MATH 141 - COMP 250 Introduction to Signals and Systems 3 P - ECSE 200 - - ECSE 201 Introduction to Signals and Systems 3	2nd Term		18 credits	Prerequisites/Co-requisites
ECSE 202 Introduction to Software Development 3 - MATH 141 Calculus 2 4 P. HMTS 131 / C - MATH 140 PHYS 142 Electromagnetism and Optics 4 P. HMTS 131 / C - MATH 141 CS Complementary Studies Group A (Impact)* 3 - Std Term (Fall) 15 credits Prequisites/Co-requisites CCOM 200 Communication in Engineering 3 - ECSE 200 Expensibilities of the Professional Engineers 3 - ACC 250 Reponsibilities of the Professional Engineers 3 - MATH 262 Intermediate Calculus 3 P. HATH 132, MATH 140 MATH 262 Intermediate Calculus 3 P. HATH 132, MATH 140 MATH 263 Introduction to Signals and Systems 3 P. ECSE 200 ECSE 206 Introduction to Signals and Systems 3 P. ECSE 200 ECSE 2210 Electric Circuits 2 3 P. ECSE 200 ECSE 222 Digital Logic 3 P. ECSE 200 ECSE 2210 Electric Circuits 2 3 P. ECS		. ,		
MATH 141 Calculus 2 4 P. MATH 140 PMYS 142 Celetomagnetism and Optics 4 P. PHYS 131 / C - MATH 141 CS Complementary Studies Group A (Impact)* 3 - 3rd Term (Fall) 15 credits Prerequisites/Co-requisites CCMM 205 Communication in Engineering 3 - ECSE 200 Picotability and Statistics for Engineers 3 - FACC 250 Responsibilities of the Protessional Engineer 0 P. FACC 100 or BREE 250 MATH 282 Introduction for Engineers 3 C. MATH 282 MATH 141 MATH 283 Ordinary Differential Equations for Engineers 3 P. Familiarity with a high level programming language and CEGEP level Math 140, MATH 133, MATH 140, MATH 141 CSE 206 Introduction to Signals and Systems 3 P. ECSE 200 ECSE 200 ECSE 205 Digital Logic 3 P. ECSE 200 ECSE 200 ECSE 205 Digital Logic 3 P. ECSE 200 ECSE 200 ECSE 205 Digital Cogic 3 P. ECSE 200 ECSE 200 ECSE 205	-			
PHYS 142 Electronagnetism and Optics 4 P. PHYS 131 / C - MATH 141 CS Complementary Studies Group A (Impact)* 3 - 3rd Term (Fail) 15 credits Prerequisites/Co-requisites CCOM 206 Communication in Engineering 3 - CSE 200 Electro Circuits 3 P. PHYS 142 / C - MATH 263 CSE 200 Electro Circuits 3 P. ACC 100 or BREE 250 MATH 282 Intermediate Calculus 3 P. MATH 133, MATH 141 MATH 282 Intermediate Calculus 3 P. FACC 100 or BREE 250 MATH 282 Intermediate Calculus 3 P. HATH 133, MATH 140 COMP 250 Introduction to Computer Science 3 P. Face 1000000000000000000000000000000000000				- P - MATH 140
Complementary Studies Group A (Impact)* 3 - Saft Term (Fall) 15 credul Sector Crouts 1 3 - ECSE 200 Electric Crouts 1 3 - ECSE 200 Flortcuits 1 3 - ECSE 200 Flortcuits 1 3 - FACC 250 Responsibilities of the Probasiting and Statistics for Engineers 3 - FACC 250 Responsibilities of the Probasiting and Statistics for Engineers 3 C MATH 230 MATH 263 Introduction to Computer Science 3 P FARC 250 Responsibilities of the Probasiting and Systems 3 P FCSE 200 ECSE 200 ECSE 200 ECSE 220 Introduction to Signals and Systems 3 P FCSE 200 ECSE 200 ECSE 200 ECSE 220 ECSE 220 ECSE 220 ECSE 220 ECSE 220 ECSE 220 ECSE 200	-			
3rd Term (Fail) 15 credits Prerequisites/Co-requisites CCOM 206 Communication in Engineering 3 - CCSE 200 Electric Circuits 1 3 P - PACS (10 or BREE 250) ECSE 201 Electric Circuits 1 3 P - FACC 100 or BREE 250 MATH 262 Intermediate Calculus 3 P - MATH 133, MATH 141 MATH 262 Intermediate Calculus 3 P - FACC 100 or BREE 250 MATH 262 Ordnary Differential Equations for Engineers 3 C - MATH 262 COMP 250 Introduction to Computer Science 3 P - FECSE 200 COMP 250 Introduction to Signals and Systems 3 P - ECSE 200 ECSE 210 Electric Circuits 2 3 P - ECSE 200 ECSE 222 Digital Logic 3 P - ECSE 200 ECSE 223 Digital Logic 3 P - ECSE 200 ECSE 224 Digital Logic 3 P - ECSE 200 ECSE 224 Digital Logic 3 P - ECSE 200 ECSE 224 Computer Organization 4 P - ECSE 200 ECSE 232 Econtrangoniterentation 4 P - ECSE 200				1 -1113 1317 C- MATT 141
CCOM 206 Communication in Engineering 3 EGSE 200 Electric Circuits 1 3 P - PHYS 142 / C - MATH 263 EGSE 200 Responsibilities of the Professional Engineers 3 - FACC 260 Responsibilities of the Professional Engineers 3 P - MATH 1733. MATH 141 MATH 263 Ordinary Differential Equations for Engineers 3 C - MATH 262 MATH 7620 Introduction to Computer Science 3 P - Familiarity with a high level programming language and CEGEP level Math 700 18 credits Precequisites/Co-requisites COMP 250 Introduction to Signals and Systems 3 P - ECSE 200 ECSE 210 Electric Circuits 2 3 P - ECSE 200 ECSE 223 Model-Based Programming 3 P - ECSE 200 ECSE 224 Complementary Studies Group B (HSSML) - 2" 3 - Sth Term (FeII) 17 credits Prerequisites/Co-requisites ECSE 231 Design Principles and Methods 3 P - ECSE 200 ECSE 233 Electromagnetic Fields and Waves 3 P - ECSE 200, ECSE 222 ECSE 233 Electromagnetic Fields and Waves 3 P - EC				
ECSE 200 Electric Circuits 1 3 P - PHYS 142 / C - MATH 283 ECSE 200 Fector Explaints 3 - FAOC 250 Responsibilities of the Professional Engineer 0 P - FACC 100 or RHEE 250 MATH 283 Ordinary Differential Equations for Engineers 3 P - MATH 133, MATH 141 MATH 263 Ordinary Differential Equations for Engineers 3 P - FANC 100 or RHEE 250 MATH 263 Ordinary Differential Equations for Engineers 3 P - MATH 1422 CMP 250 Introduction to Computer Science 3 P - ECSE 200 ECSE 201 Introduction to Signals and Systems 3 P - ECSE 200 ECSE 223 Model-Based Programming 3 P - ECSE 200 ECSE 224 Ecorne Digral Logic 3 P - ECSE 200 CS Computer Organization 4 P - ECSE 200 CS Computer Organization 4 P - ECSE 200 ECSE 234 Electromagnetic Fields and Watods 3 P - ECSE 200 ECSE 235 Electromagnetic Fields and Watods 3 P - ECSE 200 <				Prerequisites/Co-requisites
ECSE 205 Probability and Statistics for Engineers 3 - FACC 250 Responsibilities of the Professional Engineer 0 P - FACC 100 or BREE 250 MATH 263 Ordinary Differential Equations for Engineers 3 C - MATH 263 MATH 263 Ordinary Differential Equations for Engineers 3 C - MATH 262 MATH 263 Ordinary Differential Equations for Engineers 3 C - MATH 262 MATH 263 Introduction to Computer Science 3 P - Familiarity with a high level programming language and CEGEP level Math (MATH 133, MATH 140, MATH 141) ECSE 206 Introduction to Signals and Systems 3 P - ECSE 200 ECSE 221 Electritic Circuits 2 3 P - ECSE 200 ECSE 222 Digital Logic 3 P - ECSE 200 ECSE 223 Model-Based Programming 3 P - ECSE 200 ECSE 210 Design Principles and Methods 3 P - ECSE 200 ECSE 233 Electronicis 4 P - ECSE 200, ECSE 222 ECSE 233 Electronicis 4 P - ECSE 200, ECSE 202 ECSE 233 Electronicis 8 C - ECSE 201, MATH 263 ECSE 234 C				•
FACC 250 Responsibilities of the Professional Engineer 0 PFACC 100 or BREE 250 MATH 263 Ordinary Differential Equations for Engineers 3 C - MATH 133, MATH 141 MATH 263 Ordinary Differential Equations for Engineers 3 C - MATH 262 4th Term (Winter) 18 credits Prerequisites/Co-requisites COMP 250 Introduction to Computer Science 3 P ECSE 200 ECSE 221 Electric Circuits 2 3 P ECSE 200 ECSE 222 Digital Logic 3 P ECSE 200 ECSE 223 Model-Based Programming 3 P ECSE 200 CS Complementary Studies Group B (HSSML) - 2" 3 P ECSE 200 ECSE 224 Oign Principles and Methods 3 P ECSE 200, ECSE 202 ECSE 232 Complementary Studies Group B (HSSML) - 2" 3 - ECSE 241 Design Principles and Methods 3 P ECSE 200, ECSE 202 ECSE 333 Electronics 4 P. ECSE 200, ECSE 202 ECSE 334 Electronics 4 P. ECSE 200, ECSE 202 ECSE 335 Electronics 9 P. ECSE 200, ECSE 202	-			P - PHYS 142 / C - MATH 263
MATH 282 Intermediate Calculus 3 P - MATH 143, MATH 141 MATH 283 Ordinary Differential Equations for Engineers 3 C - MATH 282 MATH 283 Ordinary Differential Equations for Engineers 3 C - MATH 282 MATH 280 Introduction to Computer Science 3 P - Familianty with a high level programming tanguage and CEGEP level Math (MATH 143), MATH 140, MATH 141] ECSE 206 Introduction to Signals and Systems 3 P - ECSE 200 ECSE 221 Digital Logic 3 P - ECSE 200 ECSE 222 Digital Logic 3 P - ECSE 200 ECSE 223 Model-Based Programming 3 P - ECSE 200 CS Complementary Studies Group B (HSSML) - 2" 3 - Sth Term (Fall) 17 credits Prerequisites/Co-requisites ECSE 221 Design Principles and Methods 3 P - ECSE 200, ECSE 222 ECSE 324 Computer Organization 4 P - ECSE 200, ECSE 222 ECSE 331 Electromagnetic Fields and Waves 3 P - ECSE 200, ECSE 222 ECSE 332 Electromagnetic Fields and Waves 3 P - ECSE 200, ECSE 222 ECSE 333 Electromag	-			-
MATH 223 Ordinary Differential Equations for Engineers 3 C - MATH 222 4th Term (Winter) 18 credits Prerequisites/Co-requisites COMP 250 Introduction to Computer Science 3 P - Familiantly with a high level programming language and CEGEP level Math (MATH 133, MATH 140, MATH 141] ECSE 260 Introduction to Signals and Systems 3 P - ECSE 200 ECSE 222 Digital Logic 3 P - ECSE 200 ECSE 223 Model-Based Programming 3 P - ECSE 200 ECSE 224 Computer organization P requisites/Co-requisites ECSE 221 Design Principles and Methods 3 P - ECSE 200, ECSE 202 ECSE 231 Design Principles and Methods 3 P - ECSE 200, ECSE 202 ECSE 233 Electronics 4 P - ECSE 210, MCH 262, MATH 263 ECSE 334 Electronics 7 P - ECSE 210, MCH 263, MATH 263 ECSE 335 Electronics 8 9 - ECSE 200, ECSE 222 ECSE 336 Electronics 7 8 ECSE 331 Interduction to Software Engineering 3 P - ECSE 200, ECSE 202 ECSE 321 Therm (Winter) 18 Credi	FACC 250	Responsibilities of the Professional Engineer	0	P - FACC 100 or BREE 250
Ath Term (Winter) 18 credits Prerequisites/Co-requisites COMP 250 Introduction to Computer Science 3 P - Familiarity with a high level programming language and CEGEP level Math [MTH 133, MXTH 140, MATH 141] ECSE 206 Introduction to Signals and Systems 3 P - ECSE 200 ECSE 210 Electric Circuits 2 3 P - ECSE 200 ECSE 222 Digital Logic 3 P - ECSE 200 ECSE 223 Model-Based Programming 3 P - ECSE 200 CS Complementary Studies Group B (HSSML) - 2" 3 - Sth Term (Fall) 17 credits Prerequisites/Co-requisites ECSE 211 Design Principles and Methods 3 P - ECSE 200, ECSE 202 ECSE 323 Electronagnetic Fields and Waves 3 P - ECSE 200, ECSE 202 ECSE 323 Electronagnetic Fields and Waves 3 P - ECSE 200, ECSE 202 ECSE 323 Electronagnetic Fields and Waves 3 P - ECSE 200, ECSE 202 ECSE 323 Electronagnetic Fields and Waves 3 P - ECSE 200, ECSE 202 ECSE 320 Engineering Economy 3 - ECSE 200	MATH 262	Intermediate Calculus		P - MATH 133, MATH 141
COMP 250 Introduction to Computer Science 3 P - Familiarity with a high level programming language and CEGEP level Math (MATH 133, MATH 140, MATH 141) ECSE 206 Introduction to Signals and Systems 3 P - ECSE 200 ECSE 210 Electric Circuits 2 3 P - ECSE 200 ECSE 222 Digital Logic 3 P - ECSE 200 ECSE 223 Model-Based Programming 3 P - ECSE 200 ECSE 224 Digital Logic 3 P - ECSE 200 ECSE 225 Digital Logic 3 P - ECSE 200 ECSE 221 Design Principles and Methods 3 P - ECSE 200 ECSE 233 Electronics 4 P - ECSE 200 ECSE 334 Computer Organization 4 P - ECSE 200 ECSE 335 Electronics 4 P - ECSE 200 ECSE 336 Electronics 4 P - ECSE 201 ECSE 331 Electronics 4 P - ECSE 202 ECSE 331 Electronics 4 P - ECSE 201 COMP 251 Algorithms and Data Structures 3 C - MATH 240 ECSE 324 Introduction to Software Engineering 3<	MATH 263	Ordinary Differential Equations for Engineers	3	C - MATH 262
Math [MATH 133, MATH 140, MATH 141] ECSE 206 Introduction to Signals and Systems 3 P - ECSE 200 ECSE 210 Electric Circuits 2 3 P - ECSE 200 ECSE 222 Digital Logic 3 P - ECSE 200 ECSE 223 Model-Based Programming 3 P - ECSE 200 CS Complementary Studies Group B (HSSML) - 2* - 5th Term (Fall) 17 credits Prerequisites/Co-requisites ECSE 210 Design Principles and Methods 3 P - ECSE 200, ECSE 202 ECSE 324 Computer Organization 4 P - ECSE 210, ECSE 210 ECSE 213 ECSE 323 Electronagretic Fields and Waves 3 P - ECSE 210, MATH 262, MATH 263 ECSE 211 COMP 251 Algorithms and Data Structures 3 C - MATH 240 ECSE 323 COMP 251 Algorithms and Data Structures 3 P - ECSE 320, ECSE 324 ECSE 221 ECSE 325 Digital Systems 3 P - ECSE 324 ECSE 324 ECSE 325 ECSE 325 Digital Systems 3 P - ECSE 324 ECSE 324 E	4th Term (Winter)	18 credits	Prerequisites/Co-requisites
ECSE 206Introduction to Signals and Systems3P - ECSE 200ECSE 210Electric Circuits 23P - ECSE 200ECSE 223Digital Logic3P - ECSE 200ECSE 223Model-Based Programming3P - ECSE 200CSComplementary Studies Group B (HSSML) - 2*3-Sth Term (Fall)17 creditsPrerequisites/Co-requisitesECSE 211Design Principles and Methods3P - ECSE 200, ECSE 202ECSE 234Computer Organization4P - ECSE 200, ECSE 202ECSE 331Electronics4P - ECSE 210, MATH 263ECSE 333Electronics4P - ECSE 210, MATH 263FACC 300Engineering Economy3-6th Term (Winter)18 creditsPrerequisites/Co-requisitesCOMP 251Algorithms and Data Structures3Q - ECSE 202, ECSE 205, ECSE 202, ECSE 222ECSE 323Introduction to Software Engineering3P - ECSE 200, ECSE 205, ECSE 205, ECSE 222, ECSE 223, ECSE 232, Introduction to Software EngineeringECSE 325Digital Systems3P - ECSE 200, ECSE 204, ECSE 204, ECSE 204, ECSE 204, ECSE 204, ECSE 234, ECSE 434, MicroprocessorsCESE 444Microprocessors4P - ECSE 206, ECSE 206, ECSE 204, and CCOM 206 and (ECSE 330 or ECSE 331 or COMP 302)ECSE 425Complementary3-ECSE 425Complementary3-ECSE 425Complementary3-ECSE 425Complementary3-ECSE 425Complementary3 <t< td=""><td>COMP 250</td><td>Introduction to Computer Science</td><td>3</td><td></td></t<>	COMP 250	Introduction to Computer Science	3	
ECSE 210 Electric Circuits 2 3 P - ECSE 200 ECSE 222 Digital Logic 3 P - ECSE 200 ECSE 223 Model-Based Programming 3 P - ECSE 200 CS Complementary Studies Group B (HSSML) - 2* 3 - Sth Term (Fall) 17 credits Prerequisites/Co-requisites ECSE 211 Design Principles and Methods 3 P - ECSE 200, ECSE 202 ECSE 324 Computer Organization 4 P - ECSE 200, ECSE 202 ECSE 335 Electronagnetic Fields and Waves 3 P - ECSE 210 ECSE 335 Electronagnetic Fields and Waves 3 P - ECSE 210, MATH 262, MATH 263 FACC 300 Engineering Economy 3 - GMT Part (Winter) 18 credits Prerequisites/Co-requisites COMP 251 Introduction to Software Engineering 3 P - ECSE 200, ECSE 205, ECSE 222 ECSE 325 Digital Systems 3 P - ECSE 200 ECSE 324 ECSE 237 Digital Systems 3 P - ECSE 232 ECSE 324 ECSE 308 Introduction to Communication Systems and Networks 4 P - ECSE 206, ECSE 206 ECSE 3				
ECSE 222Digital Logic3P - ECSE 200ECSE 223Model-Based Programming3P - ECSE 200CSComplementary Studies Group B (HSSML) - 2"3-Sth Term (Fall)17 creditsPrerequisites/Co-requisitesECSE 211Design Principles and Methods3P - ECSE 200, ECSE 202ECSE 324Computer Organization4P - ECSE 200, ECSE 222ECSE 333Electronics4P - ECSE 210, MATH 263, MATH 263ECSE 334Electronics3P - ECSE 210, MATH 262, MATH 263ECSE 335Electronige Economy3-Gth Term (Winter)18 creditsPrerequisites/Co-requisitesCOMP 251Algorithms and Data Structures3C - MATH 240ECSE 321Intermodynamics of Computing3P - ECSE 202, ECSE 222ECSE 323Introduction to Software Engineering3P - ECSE 202, ECSE 222ECSE 324Operating Systems3P - ECSE 202, ECSE 222ECSE 325Digital Systems3P - ECSE 204, ECSE 224ECSE 326Digital Systems3P - ECSE 204ECSE 427Operating Systems3P - ECSE 324 or COMP 273MATH 240Discrete Structures 13C - MATH 133Tth Term (Fall)17 creditsPrerequisites/Co-requisitesECSE 444Microprocessors4P - ECSE 324ECSE 456ECSE Design Project 13P - ECSE 324ECSE 426Complementary3-ECSE 427Corequisites/Co-requisi			3	
ECSE 223 Model-Based Programming 3 P - ECSE 200 CS Complementary Studies Group B (HSSML) - 2" 3 - Sth Term (Fall) 17 credits Prerequisites/Co-requisites ECSE 234 Computer Organization 4 P - ECSE 200, ECSE 222 ECSE 334 Electronics 4 P - ECSE 210, ECSE 222 ECSE 335 Electronics 4 P - ECSE 210, MATH 263, MATH 263 ECSE 335 Electronagnetic Fields and Waves 3 P - ECSE 210, MATH 263, MATH 263 ECSE 335 Electronagnetic Fields and Waves 3 P - ECSE 210, MATH 263, MATH 263 ECSE 336 Electronagnetic Fields and Waves 3 P - ECSE 210, MATH 263, MATH 263 ECSE 336 Electronagnetic Fields and Waves 3 P - ECSE 210, MATH 263, MATH 263 COMP 251 Algorithms and Data Structures 3 C - MATH 240 ECSE 331 Therodynamics of Computing 3 P - ECSE 202, ECSE 205, ECSE 202 ECSE 322 Digital Systems 3 P - ECSE 324 or COMP 273 MATH 240 Discrete Structures 1 3 C - MATH 133 Tth Term (Fall) 17 credits Prerequisites/Co-requisi	ECSE 210	Electric Circuits 2	3	P - ECSE 200
CS Complementary Studies Group B (HSSML) - 2* 3 - 5th Term (Fall) 17 credits Prerequisites/Co-requisites ECSE 211 Design Principles and Methods 3 P - ECSE 200, ECSE 202 ECSE 331 Electronics 4 P - ECSE 200, ECSE 202 ECSE 331 Electronics 4 P - ECSE 200, ECSE 222 ECSE 331 Electronics 4 P - ECSE 201, MATH 263, MATH 263 FACC 300 Engineering Economy 3 - 6th Term (Winter) 18 credits Prerequisites/Co-requisites COMP 251 Algorithms and Data Structures 3 C - MATH 240 ECSE 321 Introduction to Software Engineering 3 P - ECSE 200, ECSE 205, ECSE 222 ECSE 325 Digital Systems 3 P - ECSE 324 ECSE 324 ECSE 325 Digital Systems 3 P - ECSE 324 or COMP 273 ECSE 325 MATH 240 Discrete Structures 1 3 C - MATH 133 ECSE 326 ECSE 326 or ECSE 324 or COMP 273 MATH 240 Discrete Structures 1 3 C - MATH 133 ECSE 326 ECSE 326 ECSE 205, ECSE 206 ECSE 326 ECSE	ECSE 222	Digital Logic	3	P - ECSE 200
5th Term (Fall)17 creditsPrerequisites/Co-requisitesECSE 211Design Principles and Methods3P - ECSE 200, ECSE 202ECSE 324Computer Organization4P - ECSE 200, ECSE 222ECSE 333Electronics4P - ECSE 210, MATH 263, MATH 263FACC 300Engineering Economy3-6th Term (Winter)18 creditsPrerequisites/Co-requisitesCOMP 251Algorithms and Data Structures3C - MATH 240ECSE 310Thermodynamics of Computing3P - ECSE 200, ECSE 205, ECSE 222ECSE 311Introduction to Software Engineering3P - ECSE 200, ECSE 205, ECSE 222ECSE 325Digital Systems3P - ECSE 200, ECSE 324ECSE 325Digital Systems3P - ECSE 324ECSE 301Introduction to Software Engineering3P - ECSE 205, ECSE 324 or COMP 273MATH 240Discrete Structures 13C - MATH 1337th Term (Fall)17 creditsPrerequisites/Co-requisitesECSE 303Introduction to Communication Systems and Networks4P - ECSE 206ECSE 456ECSE Design Project 13P - ECSE 330 or ECSE 324 and CCOM 206 and (ECSE 330 or ECSE	ECSE 223	Model-Based Programming	3	P - ECSE 200
ECSE 211 Design Principles and Methods 3 P - ECSE 200, ECSE 202 ECSE 324 Computer Organization 4 P - ECSE 200, ECSE 202 ECSE 331 Electronics 4 P - ECSE 210 ECSE 333 Electromagnetic Fields and Waves 3 P - ECSE 210, MATH 262, MATH 263 FACC 300 Engineering Economy 3 - 6th Term (Winter) 18 credits Prerequisites/Co-requisites COMP 251 Algorithms and Data Structures 3 C - MATH 240 ECSE 321 Thermodynamics of Computing 3 P - ECSE 200, ECSE 205, ECSE 222 ECSE 321 Introduction to Software Engineering 3 P - ECSE 202 ECSE 325 Digital Systems 3 P - ECSE 322 or ECSE 324 or COMP 273 MATH 240 Discrete Structures 1 3 C - MATH 133 7th Term (Fall) 17 credits P recequisites/Co-requisites ECSE 424 Microprocessors 4 P - ECSE 204, ECSE 205, ECSE 324 and ECOM 206 and (ECSE 303 or ECSE 324) and CCOM 206 and (ECSE 303 or ECSE 324) and CCOM 206 and (ECSE 303 or ECSE 324) and CCOM 206 and (ECSE 456 ECSE 444 Microprocessors 4 P - ECSE 205, ECSE 205 ECSE	CS	Complementary Studies Group B (HSSML) - 2*	3	-
ECSE 211 Design Principles and Methods 3 P - ECSE 200, ECSE 202 ECSE 324 Computer Organization 4 P - ECSE 200, ECSE 202 ECSE 331 Electronics 4 P - ECSE 210 ECSE 333 Electromagnetic Fields and Waves 3 P - ECSE 210, MATH 262, MATH 263 FACC 300 Engineering Economy 3 - 6th Term (Winter) 18 credits Prequisites/Co-requisites COMP 251 Algorithms and Data Structures 3 C - MATH 240 ECSE 321 Introduction to Software Engineering 3 P - ECSE 200, ECSE 205, ECSE 222 ECSE 321 Introduction to Software Engineering 3 P - ECSE 324 ECSE 427 Operating Systems 3 P - ECSE 202 or ECSE 324 or COMP 273 MATH 240 Discrete Structures 1 3 C - MATH 133 7th Term (Fall) 17 credits Prerequisites/Co-requisites ECSE 424 Microprocessors 4 P - ECSE 204, ECSE 324 ECSE 444 Microprocessors 4 P - ECSE 204, ECSE 324 or COMP 302) ECSE 456 ECSE Design Project 1 3 P - ECSE 231 or ECSE 324 or COM 206 and (ECSE 330 or EC	5th Term (Fall)	17 credits	Prerequisites/Co-requisites
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ECSE 331 Electronics 4 P - ECSE 210 ECSE 353 Electromagnetic Fields and Waves 3 P - ECSE 210, MATH 262, MATH 263 FACC 300 Engineering Economy 3 - 6th Term (Winter) 18 credits Prerequisites/Co-requisites COMP 251 Algorithms and Data Structures 3 C - MATH 240 ECSE 310 Thermodynamics of Computing 3 P - ECSE 200, ECSE 205, ECSE 222 ECSE 321 Introduction to Software Engineering 3 P - ECSE 202 ECSE 325 Digital Systems 3 P - ECSE 324 FCSE 324 ECSE 325 Digital Systems 3 P - ECSE 322 or ECSE 324 or COMP 273 MATH 240 Disorete Structures 1 3 C - MATH 133 7th Term (Fall) 17 credits Prerequisites/Co-requisites ECSE 444 Microprocessors 4 P - ECSE 324 ECSE 456 ECSE Design Project 1 3 P - ECSE 330 or ECSE 321 and CCOM 206 and (ECSE 330 or ECSE 331 or COMP 302) ECSE xxx Technical Complementary 3 - ECSE 457 ECSE Design Project 2 3 P - (ECSE 322 and ECSE 323) or ECSE 324 <	ECSE 324	Computer Organization	4	P - ECSE 200, ECSE 222
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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).

**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 - Computer Engineering

Technical Complementaries

15-19 credits

- 5 courses must be taken, chosen as follows:
- 3 courses (minimum 9 credits) from List A
- The remaining 2 courses (minimum 6 credits) from List A or List B

List A

9-17 credits from the following:

0 11 0104110	in official official statistical statistic		
		Credits	Prerequisites/Co-requisites
COMP 424	Artificial Intelligence	3	P - COMP 206 / ECSE 321, MATH 323 or equivalent, and COMP 251
ECSE 335	Microelectronics	4	P - ECSE 331
ECSE 412	Discrete Time Signal Processing	3	P - ECSE 304 or ECSE 306
ECSE 416	Telecommunication Networks	4	P - COMP 250, ECSE 205, ECSE 308 / ECSE 316
ECSE 420	Parallel Computing	3	P - ECSE 427
ECSE 421	Embedded Systems	3	P - ECSE 322, ECSE 323
ECSE 422	Fault Tolerant Computing	3	P - ECSE 322 or (ECSE 324 and COMP 250)
ECSE 424	Human-Computer Interaction	3	P - ECSE 322 or (ECSE 324 and COMP250) or (COMP 251 and COMP
			273)
ECSE 428	Software Engineering Practice	3	P - ECSE 321 or COMP 335
ECSE 429	Software Validation	3	P - ECSE 321 or COMP 303
ECSE 439	Software Language Engineering	3	P - ECSE 321 or COMP 303

List B

0-8 credits from the following:

COMP 557	Fundamentals of Computer Graphics	3	P - COMP 206, COMP 250, MATH 222/262, MATH 223
ECSE 307	Linear Systems and Control	4	P - ECSE 206, ECSE 210
ECSE 403	Control	4	P - ECSE 307
ECSE 408	Communication Systems	4	P - ECSE 205, ECSE 308
ECSE 415	Introduction to Computer Vision	3	P - ECSE 304 or ECSE 306 or instructor permission
ECSE 431	Introduction to VLSI CAD	3	P - ECSE 323, ECSE 330
ECSE 435	Mixed-Signal Test Techniques	3	P - (ECSE 206 or ECSE 304) and (ECSE 334 or ECSE 335)
ECSE 436	Signal Processing Hardware	3	P - ECSE 322, ECSE 323, ECSE 304 / 306
ECSE 450	Electromagnetic Compatibility	3	P - (ECSE 221 or ECSE 222) and (ECSE 334 or ECSE 331) and (ECSE
			352 or ECSE 353 or ECSE 354)
ECSE 472	Fundamentals of Circuit Simulation and Modelling	3	-

Last update: June 2, 2017

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