Course Sequence <u>Computer Engineering, Engineering Management and Entrepreneurship Option</u>

1st YEAR (30 credits)

		Session	<u>Prerequisite</u>
CHM1311	Principles of Chemistry	Fall	4U chemistry or OAC Chemistry or equivalent.
GNG1105	Engineering Mechanics	Fall	Physics 4U, advanced functions and Introductory
			Calculus 4U or equivalent
ITI1120	Introduction to computing I	Fall	
MAT1320	Calculus I	Fall	One of MAT1339, Ontario 4U Calculus and Vectors
			MCV4U) or an equivalent.
MAT1341	Introduction to Linear Algebra	Fall	MAT1339 or Ontario 4U Calculus and
			Vectors (MCV4U), or an equivalent.
ITI1100	Digital systems I	Winter	
ITI1121	Introduction to computing II	Winter	ITI1120
MAT1322	Calculus II	Winter	MAT1320
MAT1348	Discrete Mathematics for Computing	Winter	
PHY1124	Fundamentals of Physics for Engineers	s Winter	OAC or 4U Physics, MAT1320

2nd YEAR (36 credits)

		Session	<u>Prerequisite</u>
CEG2136	Computer architecture I	Fall	ITI1100
CSI2110	Data Structures and Algorithms	Fall	ITI1121, MAT1348
ELG2138	Circuit Theory I	Fall	ITI1100, MAT1341, MAT1322
MAT2322	Calculus III for Engineers	Fall	(MAT1322 or MAT1325 or MAT1332),
			(MAT1341 or CEGEP linear algebra)
ENG1112	Technical Report Writing	Fall	
SEG2105	Introduction to Software Engineering	Fall	ITI1121
ADM1100	Introduction to Business Management	Winter	
ELG2136	Electronics I	Winter	ELG2138, MAT2384
ELG2911	Professional Practice in Information	Winter	
	Technology and Engineering		
MAT2377	Probability and Statistics for	Winter	MAT1320 or MAT1330; corequisite:
	Engineers		MAT1322 or MAT1325 or MAT1332
PHY2323	Electricity and Magnetism	Winter	(MAT2121 or MAT2122 or MAT2322), (PHY1124 or
			{PHY1121, PHY1122} or {PHY1321, PHY1322} or
			{PHY1331, PHY1322}).
SEG2106	Software Construction	Winter	

3rd YEAR (36 credits)

		Session
ADM1340	Financial Accounting	Fall
CEG3136	Computer Architecture II	Fall
CEG3155	Digital Systems II	Fall
ECO1192	Engineering Economics	Fall
ELG3125	Signal and System Analysis	Fall
MAT2384	Ordinary Differential Equations	Fall
	and Numerical Methods	
ADM2320	Marketing	Winter
CEG3156	Computer Systems Design	Winter
CEG3185	Introduction to Data Communications	Winter
	and Networking	
CSI3131	Operating Systems	Winter
ELG3155	Introduction to Control Systems	Winter
HIS2129 or	Technology, Society and	Winter (HIS2129)
PHI2394	Environment since 1800 /	Fall (PHI2394)
	Scientific Thought and Social	
	Value	

Prerequisite ADM1100 or ADM1300 CEG2136 CEG2136

ELG2138 MAT1341, (MAT1322 or MAT1325 or MAT1322) ADM1100 or ADM1300 CEG3155 MAT2377 or (MAT2371, MAT2375), or corequisite: ELG3126 CEG2136, CSI2110 ELG3125

4th YEAR (30 credits)

		Session	Prerequisite
ADM3313	Entrepreneurial Mind: New Venture Creation	Fall	ADM1100 or ADM1300
CEG4136	Computer Architecture III	Fall	CEG3136
CEG4912	Computer Engineering Design Project I	Fall	CEG3136, CEG3156
Science elective		Fall/Winter	
Technical elective		Fall/Winter	
CEG4166	Real-Time Systems Design	Winter	CSI3131
CEG4913	Computer Engineering Design Project II	Winter	CEG4912
GNG4170	Engineering Law	Winter	
Management elective		Fall/Winter	
Technical elective		Fall/Winter	