2015-2016 Course Sequence BASc in Mechanical Engineering and BSc in Computing Technology Engineering Management and Entrepreneurship Option

1st YEAR (30 credits)

		Session
CHM1311	Principles of Chemistry	Fall
ENG1112	Technical Report Writing	Fall
GNG1105	Engineering Mechanics	Fall
ITI1120	Introduction to Computing I	Fall
MAT1320	Calculus I	Fall
ITI1121	Introduction to Computing II	Winter
MAT1322	Calculus II	Winter
MAT1341	Introduction to Linear Algebra	Winter
MCG1100	Introduction to Mechanical	X 7' /
DU11100	Engineering	Winter
PHY1122	Fundamentals of Physics II	Winter

2nd YEAR (36 credits)

	cuits)	
		Session
ADM1100	Introduction to Business Management	Fall
MAT2322	Calculus III for Engineers	Fall
MAT2384	Ordinary Differential Equations and	
	Numerical Methods	Fall
MCG2108	Mechanics II	Fall
MCG2130	Thermodynamics I	Fall
MCG2360	Engineering Materials I	Fall
CVG2140	Mechanics of Materials	Winter
ELG2336	Electric Circuits and Machines for	
	Mechanical Engineering	Winter
MAT1348	Discrete Mathematics for Computing	Winter
MCG2101	Introduction to Design	Winter
MCG2131	Thermodynamics II	Winter
MCG2361	Engineering Materials II	Winter

3rd YEAR (36 credits)

		Session
CSI2110	Data Structures and Algorithms	Fall
ELG3336	Electronics for Mechanical Engineers	Fall
MAT3320	Mathematics for Engineers	Fall
MCG3130	Dynamics of Machinery	Fall
MCG3306	System Dynamics	Fall
MCG3340	Fluid Mechanics I	Fall
ITI1100	Digital systems I	Winter
MCG3110	Heat Transfer	Winter
MCG3131	Machine Design	Winter
MCG3145	Advanced Strength of Materials	Winter
MCG3307	Control Systems	Winter
MCG3341	Fluid Mechanics II	Winter

Prerequisite(s) 4U or OAC chemistry or equivalent

Physics 4U, advanced functions and Introductory Calculus 4U or equivalent

One of MAT1339, Ontario 4U Calculus and Vectors MCV4U) or an equivalent ITI1120 MAT1320 MAT1339 or Ontario 4U Calculus and Vectors (MCV4U), or an equivalent

Corequisite: GNG1105 OAC or 4U Physics; corequisite: MAT1320 (preferred) or MAT1330

Prerequisite(s)

(MAT1322 or MAT1325 or MAT1332), (MAT1341 or CEGEP linear algebra)

MAT1341, (MAT1322 or MAT1325 or MAT1332) GNG1105; corequisite: MAT2322

GNG1105

PHY1122; corequisite: MAT2384

MCG1100, MCG2108, (MCG2360 or MCG2141) MCG2130 MCG2360

Prerequisite(s)

ITI1121, MAT1348 ELG2336 (MAT2121 or MAT2322), (MAT2324 or MAT2384) MCG2108 MAT2384, MCG2108 MCG2108, MCG2130

MCG3340 CVG2140, MCG2101, (MCG2361 or MCG2142) CVG2140, MCG2108 MAT3320, MCG3130, MCG3306, MCG3340, ELG3336. Corequisite: MCG3110 MCG3340

4th YEAR (33 credits)

4 TEAK (55 creates)			
		Session	
CEG2136	Computer Architecture I	Fall	
CSI2372	Advanced Programming Concepts		
	with C++	Fall	
MAT2377	Probability and Statistics for Engineers	Fall	
MCG4328	Manufacturing	Fall	
ADM1340	Financial Accounting	Fall	
ADM2320	Marketing	Fall	
CSI2120	Programming Paradigms	Winter	
ECO1192	Engineering Economics	Winter	
MCG4308	Mechanical Vibration Analysis	Winter	
MCG4340	Mechanical Engineering Laboratory	Winter	

Elective in ADM

5th YEAR (27 credits)

		Session
MCG4322 (6 credits)	Computer-Aided Design	Fall
CEG3136	Computer Architecture II	Fall
Technical elective		Fall
PHI2394	Scientific Thought and Social Values	Fall
or		
GNG4120	Technology Entrepreneurship	
	for Engineers and Computer Scientists	Fall
or		
HIS2129	Technology, Society and Environment	
	since 1800	Winter
ADM3313	Entrepreneurial Mind: New Venture	
	Creation	Winter
CSI3131	Operating Systems	Winter
GNG4170	Engineering Law	Winter
Elective from CSI, SE	G or CEG 2000 level or above	Winter

Winter

Prerequisite(s) ITI1100

ITI1121, ITI1100 MAT1320 or MAT1330; corequisite: MAT1322 or MAT1325 or MAT1332 MCG3110, MCG3340, (MCG2361 or MCG2142) ADM1100 or ADM1300 ADM1100 or ADM1300 CSI2110 Development

MAT3320, MCG3130 MCG3110, MCG3131, (MCG3145 or MCG3141), (MCG3307 or MCG3142)

Prerequisite(s) 24 MCG credits at the 3000 level CEG2136

ADM1100 or ADM1300 CEG2136, CSI2110