2015-2016 Course Sequence BASc in Mechanical Engineering, Engineering Management and Entrepreneurship Option

1st YEAR (30 credits)

		<u>Session</u>	<u>Prerequisite(s)</u>
CHM1311	Principles of Chemistry	Fall	4U or OAC chemistry or equivalent
ENG1112	Technical Report Writing	Fall	
GNG1105	Engineering Mechanics	Fall	Physics 4U, advanced functions and Introductory
			Calculus 4U or equivalent
GNG1106	Fundamentals of Engineering		
	Computation	Fall	
MAT1320	Calculus I	Fall	One of MAT1339, Ontario 4U Calculus and Vectors
			MCV4U) or an equivalent
ECO1192	Engineering Economics	Winter	
MAT1322	Calculus II	Winter	MAT1320
MAT1341	Introduction to Linear Algebra	Winter `	MAT1339 or Ontario 4U Calculus and
			Vectors (MCV4U), or an equivalent
MCG1100	Introduction to Mechanical		•
	Engineering	Winter	Corequisite: GNG1105
PHY1122	Fundamentals of Physics II	Winter	OAC or 4U Physics; corequisite: MAT1320
	•		(preferred) or MAT1330
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2nd YEAR (36 credits)

AT1332),
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Γ1325 or MAT1332)
322
384
uisite:
T1332
2360 or MCG2141)

3rd YEAR (36 credits)

		Session	Prerequisite(s)
ADM2320	Marketing	Fall	ADM1100 or ADM1300
ELG3336	Electronics for Mechanical Engineers	Fall	ELG2336
MAT3320	Mathematics for Engineers	Fall	(MAT2121 or MAT2322), (MAT2324 or MAT2384)
MCG3130	Dynamics of Machinery	Fall	MCG2108
MCG3306	System Dynamics	Fall	MAT2384, MCG2108
MCG3340	Fluid Mechanics I	Fall	MCG2108, MCG2130
GNG4170	Engineering Law	Winter	
MCG3110	Heat Transfer	Winter	MCG3340
MCG3131	Machine Design	Winter	CVG2140, MCG2101, (MCG2361 or MCG2142)
MCG3145	Advanced Strength of Materials	Winter	CVG2140, MCG2108
MCG3307	Control Systems	Winter	MAT3320, MCG3130, MCG3306, MCG3340,
			ELG3336. Corequisite: MCG3110.
MCG3341	Fluid Mechanics II	Winter	MCG3340

4th YEAR (30 credits)

		<u>Session</u>	<u>Prerequisite(s)</u>
ADM1340	Financial Accounting	Fall	ADM1100 or ADM1300. Previously ADM2340
MCG4322 (6 credits)	Computer-Aided Design	Fall	24 MCG credits at the 3000 level
MCG4328	Manufacturing	Fall	MCG3110, MCG3340, (MCG2361 or MCG2142)
ADM 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	ADM1100 or ADM1300
MCG4308	Mechanical Vibration Analysis	Winter	MAT3320, MCG3130
MCG4340	Mechanical Engineering Laboratory	Winter	MCG3110, MCG3131, MCG3145 or MCG3141,
			MCG3307 or MCG3142
Technical Elective		Winter	