

Course sequence
Mechanical Engineering, Engineering Management and Entrepreneurship option

1st YEAR (30 credits)

		<u>Session</u>	<u>Prerequisite</u>
CHM1311	Principles of Chemistry	Fall	4U chemistry or OAC Chemistry or equivalent.
ENG1112	Technical Report Writing	Fall/Winter	
GNG1105	Engineering Mechanics	Fall/Winter	Physics 4U, advanced functions and Introductory Calculus 4U or equivalent.
GNG1106	Fundamentals of Engineering Computation	Fall/Winter	
MAT1320	Calculus I	Fall/Winter	One of MAT1339, Ontario 4U Calculus and Vectors (MCV4U) or an equivalent.
ECO1192	Engineering Economics	Fall/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.

2nd YEAR (36 credits)

		<u>Session</u>	<u>Prerequisite</u>
ADM1100	Introduction to Business Management	Fall/Winter	
MAT2322	Calculus III for Engineers	Fall/Winter	(MAT1322 or MAT1325 or MAT1332), (MAT1341 or CEGEP linear algebra)
MAT2384	Ordinary Differential Equations and Numerical Methods	Fall/Winter	MAT1341, (MAT1322 or MAT1325 or MAT1332)
MCG2108	Mechanics II	Fall	GNG1105; corequisite: MAT2322
MCG2130	Thermodynamics I	Fall	
MCG2360	Engineering Materials I	Fall	
CVG2140	Mechanics of Materials	Winter	GNG1105
ELG2336	Electric Circuits and Machines for Mechanical Engineering	Winter	PHY1122; corequisite: MAT2384
MAT2377	Probability and Statistics for Engineers	Winter	MAT1320 or MAT1330; corequisite: MAT1322 or MAT1325 or MAT1332
MCG2101	Introduction to Design	Winter	MCG1100, MCG2108, (MCG2360 or MCG2141)
MCG2131	Thermodynamics II	Winter	MCG2130
MCG2361	Engineering Materials II	Winter	MCG2360

3rd YEAR (36 credits)

		<u>Session</u>	<u>Prerequisite</u>
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	Control Systems I	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 II	Winter	MAT3320, MCG3130, MCG3306, MCG3340, ELG3336. Corequisite: MCG3110.
MCG3341	Fluid Mechanics II	Winter	MCG3340

4th YEAR (30 credits)

		<u>Session</u>	<u>Prerequisite</u>
ADM1340	Financial Accounting	Fall	ADM1100 or ADM1300. Previously ADM2340
MCG4322	Computer-Aided Design	Fall	24 MCG credits at the 3000 level
MCG4328	Manufacturing	Fall	MCG3110, MCG3340, (MCG2361 or MCG2142)
Management and Entrepreneurship option elective		Fall/Winter	
HIS2129 or	Technology, Society and	Winter (HIS2129)	
PHI2394 or	Environment since 1800 /	Fall (PHI2394)	
	Scientific Thought and Social Value /		
GNG4120	Technology Entrepreneurship for Engineers and Computer Scientists	Fall (GNG4120)	
ADM3313	Entrepreneurial Mind: New Venture Creation	Fall/ Winter	ADM1100 or ADM1300
MCG4308	Mechanical Vibration Analysis	Winter	MAT3320, MCG3130
MCG4340	Mechanical Engineering Laboratory	Winter	MCG3110, MCG3131, (MCG3145 or MCG3141), (MCG3307 or MCG3142), (MCG3341 or MCG3143)
Technical elective		Fall/ Winter	