2015-2016 Course Sequence BASc in Civil Engineering, Engineering Management and Entrepreneurship option

<u>1st YEAR (30 credits)</u>		Session	Prerequisite(s)
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
CVG1107	Civil Engineering Graphics and		
	Seminars	Winter	
MAT1322	Calculus II	Winter	MAT1320
MAT1341	Introduction to Linear Algebra	Winter	MAT1339 or Ontario 4U Calculus and Vectors (MCV4U), or an equivalent
PHY1122	Fundamentals of Physics II	Winter	OAC or 4U Physics; corequisite: MAT1320 (preferred) or MAT1330
ECO1192	Engineering Economics	Winter	(1)
2 nd YEAR (36 c	redits)	Session	Prerequisite(s)
CVG2132	Fundamentals of Environmental		<u></u>
	Engineering	Fall	CHM1311
CVG2141	Civil Engineering Materials	Fall	CHM1311
CVG2149	Civil Engineering Mechanics	Fall	GNG1105, MAT1322, PHY1122
MAT2322	Calculus III for Engineers	Fall	(MAT1322 or MAT1325 or MAT1332),
			(MAT1341 or CEGEP linear algebra)
MAT2384	Ordinary Differential Equations		
	and Numerical Methods	Fall	MAT1341, (MAT1322 or MAT1325 or MAT1332)
ADM1100	Introduction to Business Management	Fall	
CVG2107	Geotechnical Materials and Processes	Winter	
CVG2116	Introduction to Fluid Mechanics	Winter	CVG2149, MAT1322
CVG2140	Mechanics of Materials I	Winter	GNG1105
CVG2171	Surveying and Measurements	Winter	
CVG2181	Numerical Modeling in Civil		
	Engineering	Winter	GNG1106, MAT2322, MAT2384
MAT2377	Probability and Statistics for Engineers	Winter	MAT1320 or MAT1330; corequisite:
			MAT1322 or MAT1325 or MAT1332
3 rd YEAR (36 c	redits)	Session	Prerequisite(s)
CVG3109	Soil Mechanics I	Fall	CVG2107, CVG2140
CVG3116	Hydraulics	Fall	CVG2116
CVG3120	Hydrology	Fall	MAT2377
CVG3120 CVG3140	Theory of Structures I	Fall	CVG2140, CVG2149
CVG3140	Mechanics of Materials II	Fall	CVG2140, CVG2149, MAT2384
PHI2394	Scientific Thought and Social Values	Fall	5 · 521 (0, 6 · 621)), Inff1250 (
0r	Setembre Phought and Social Values		
HIS2129	Technology, Society and Environment		
	since 1800	Winter	

Winter

Winter

Winter

Winter

Winter

Winter

Winter

ADM1100 or ADM1300 CVG3109

CVG2116, CVG2132 CVG2141, CVG3140, CVG3141. Corequisite: MAT2377 CVG2141, CVG3140

CVG3148 Science elective

ADM2320

CVG3106

CVG3132

CVG3147

since 1800

Marketing

Soil Mechanics II

Structural Steel Design I

Reinforced Concrete Design I

Physical / Chemical Unit Operations

of Water and Wastewater Treatment

4 th YEAR (30 credits)		Session	Prerequisite(s)
CVG4001	Introduction to Civil Engineering,		
	Project	Fall	CVG3106, CVG3116, CVG3132, CVG3147,
			CVG3148
CVG4108*	Geotechnical Design	Fall	CVG3109, CVG3106
CVG4148*	Theory of Structures II	Fall	CVG2181, CVG3140
CVG4150	Highway and Transportation		
	Engineering	Fall	CVG2171, CVG2107, CVG2141
CVG4173	Construction Management	Fall	CVG3106, CVG3147, CVG3148
CVG4175	Field Investigations	Fall	CVG2132, CVG3116, CVG3106
ADM1340	Financial Accounting	Winter	ADM1100 or ADM1300
ADM3313	Entrepreneurial Mind: New Venture		
	Creation	Winter	ADM1100 or ADM1300
CVG4113*	Hydraulics of Water Supply and Sewer	•	
	Systems	Winter	CVG3116
CVG4130*	Advanced Environmental Engineering	Winter	CVG2132
CVG4907	Engineering Design Project	Winter	CVG4001
GNG4170	Engineering Law	Winter	

* Students are exempted from two of the following courses: CVG4108, CVG4113, CVG4130 or CVG4148