

# Civil Engineering Curriculum - Fall 2012

CEGEP Entry

<b>1st Semester (Fall)</b>		<b>15 credits</b>	<b>Prerequisites/Co-requisites</b>
CIVE 205	Statics	3	-
CIVE 290	Thermodynamics and Heat Transfer	3	-
COMP 208	Computers in Engineering	3	P - MATH 140, MATH 141
MATH 262	Intermediate Calculus	3	P - MATH 141, MATH 133
CS	Complementary Studies Group B (HSSML)	3	-
<b>2nd Semester (Winter)</b>		<b>18 credits</b>	<b>Prerequisites/Co-requisites</b>
CIVE 202	Construction Materials	4	P - CIVE 290
CIVE 206	Dynamics	3	P - CIVE 205 / C - MATH 262, MATH 263
CIVE 207	Solid Mechanics	4	P - CIVE 205
FACC 100	Introduction to the Engineering Profession	1	-
MATH 263	Ordinary Differential Equations for Engineers	3	C - MATH 262
MECH 289	Design Graphics	3	-
<b>3rd Semester (Summer)</b>		<b>2 credits</b>	<b>Prerequisites/Co-requisites</b>
			P - MECH 289
<b>4th Semester (Fall)</b>		<b>15 credits</b>	<b>Prerequisites/Co-requisites</b>
CCOM 206	Communication in Engineering	3	-
CIVE 208	Civil Engineering Systems Analysis	3	P - COMP 208 / C - MATH 264
CIVE 317	Structural Engineering 1	3	P - CIVE 202, CIVE 207, MECH 289
EPSC 221	General Geology	3	-
MATH 264	Advanced Calculus for Engineers	3	P - MATH 262 / C - MATH 263
<b>5th Semester (Winter)</b>		<b>17 credits</b>	<b>Prerequisites/Co-requisites</b>
CIVE 225	Environmental Engineering	4	P - CIVE 290 / C - MATH 263
CIVE 302	Probabilistic Systems	3	P - MATH 262, COMP 208
CIVE 318	Structural Engineering 2	3	P - CIVE 317
CIVE 319	Transportation Engineering	3	P - CIVE 208, COMP 208 / C - CIVE 302
CIVE 327	Fluid Mechanics and Hydraulics	4	P - CIVE 206, MATH 264
<b>6th Semester (Fall)</b>		<b>14 credits</b>	<b>Prerequisites/Co-requisites</b>
CIVE 311	Geotechnical Mechanics	4	P - CIVE 207
CIVE 320	Numerical Methods	4	P - COMP 208, MATH 264
CIVE 323	Hydrology and Water Resources	3	P - CIVE 302
FACC 300	Engineering Economy	3	-
<b>7th Semester (Winter)</b>		<b>15 credits</b>	<b>Prerequisites/Co-requisites</b>
CIVE 324	Construction Project Management	3	P - FACC 300/MIME 310, CIVE 208
CIVE 432	Technical Paper	1	P - CCOM 206 or EDEC 206
MECH 261	Measurement Laboratory	2	
CIVE xxx	Technical Complementary	3	-
CIVE xxx	Technical Complementary	3	-
CS	Complementary Studies Group A (Impact)	3	-
<b>8th Semester (Fall)</b>		<b>14 credits</b>	<b>Prerequisites/Co-requisites</b>
CIVE 418	Design Project	4	Instructor approval required
FACC 400	Engineering Professional Practice	1	P - FACC 100, 60 program credits
CIVE xxx	Technical Complementary	3	-
CIVE xxx	Technical Complementary	3	-
CIVE xxx	Technical Complementary	3	-

Technical Complementary courses are selected from an approved list given on the next page.

The Complementary Studies (CS) courses are Impact of Technology courses (Group A) and Humanities & Social Sciences, Management Studies and Law courses (Group B). These must be chosen from an approved list of courses/departments, found in the program list under "Complementary Studies" in the Programs, Courses and University Regulations Calendar ([www.mcgill.ca/study](http://www.mcgill.ca/study)).

Students are responsible for satisfying pre/co-requisites and verifying with their department that they are meeting the requirements of their program.

		<b>Credits</b>	<b>Prerequisites/Co-requisites</b>
CIVE 416	Geotechnical Engineering	3	P - CIVE 311
CIVE 421	Municipal Systems	3	P - CIVE 327
CIVE 428	Water Resources and Hydraulic Engineering	3	P - CIVE 327
CIVE 430	Water Treatment and Pollution Control	3	P - CIVE 225, CIVE 327
CIVE 440	Traffic Engineering and Simulation	3	P - CIVE 319
CIVE 462	Design of Steel Structures	3	P - CIVE 318
CIVE 463	Design of Concrete Structures	3	P - CIVE 318

		<b>Credits</b>	<b>Prerequisites/Co-requisites</b>
CIVE 433	Urban Planning	3	-
CIVE 446	Construction Engineering	3	P - CIVE 208, FACC 300/MIME 310
CIVE 451	Geoenvironmental Engineering	3	P - CIVE 225, CIVE 311
CIVE 460	Matrix Structural Analysis	3	P - CIVE 206, CIVE 317
CIVE 470	Undergraduate Research Project	3	P - 60 program credit60 prog <</MCID(og)-1(r)9 0 Td [(Pd [(P