2004/2005 CURRICULUM - SOFTWARE ENGINEERING
ENTRY FROM CEGEP (Total Credits - 108/109)

First (Fall) Semester (TOTAL = 17 cr)	Second (Winter) Semester (TOTAL = 15 cr)
COMP 202 **Introduction to Computing 1** (3 cr) **EDEC 206** **Communication in Engineering** (3 cr) **MATH 262** **Intermediate Calculus** (3 cr) **MATH 263** **Ordinary Differential Equations and Linear Algebra** (3 cr, C - MATH 262) **MIME 221** **Engineering Professional Practice** (2 cr) XXXX xxx General Complementary I (3 cr)	**COMP 250** **Introduction to Computer Science** (3 cr, P - COMP 202) **ECSE 200** **Fundamentals of EE** (3 cr, C - MATH 263 or MATH 325) **ECSE 221** **Intro. to Computer Engineering** (3 cr, P - COMP 202) **MATH 264** **Advanced Calculus** (3 cr, P - MATH 262) **MATH 270** **Applied Linear Algebra** (3 cr, P - MATH 263)
Third (Fall) Semester (TOTAL = 17 cr)	Fourth (Winter) Semester (TOTAL = 15 cr)
COMP 206 **Introduction to Software Systems** (3 cr, P - COMP 250) **COMP 302** **Programming Languages and Paradigms** (3 cr, P - COMP 250) **ECSE 210** **Circuit Analysis** (3 cr, P - ECSE 200) **ECSE 291** **Electrical Measurements Lab** (2 cr, C - ECSE 210) **ECSE 321** **Intro. to Software Engineering** (3 cr, P - COMP 202 or COMP 208) **ECSE 322** **Computer Engineering** (3 cr, P - ECSE 200 / MECH 383 and ECSE 221)	**COMP 361** **Systems Programming Project** (3 cr, P-COMP 206) **ECSE 303** **Signals and Systems 1** (3 cr, P-ECSE 210, MATH 247/270; C-MATH 249/381) **ECSE 330** **Introduction to Electronics** (3 cr, P - ECSE 210) **MATH 363** **Discrete Mathematics** (3 cr, P - MATH 264 and MATH 270) **MATH 381** **Complex Variables & Transforms** (3 cr, P-MATH 264)
Fifth (Fall) Semester (TOTAL = 15 cr)	Sixth (Winter) Semester (TOTAL = 15 cr)
COMP 251 **Data Struct. & Algorithms** (3 cr, P- COMP 250 and MATH 240/363) **ECSE 305** **Probability and Random Sig. 1** (3 cr, P - ECSE 303) **ECSE 429** **Software Validation** (3 cr, P-ECSE 321) **MIME 310** **Engineering Economy** (3 cr) XXXX xxx Technical Complementary I (3 cr)	**COMP 360** **Algorithm Design Techniques** (3 cr, P - COMP 251) **ECSE 427** **Operating Systems** (3 cr, P - ECSE 322 or COMP 273) **ECSE 428** **Software Engineering Practice** (3 cr, P-ECSE 321 or COMP 335) XXXX xxx Technical Complementary II (3 cr) XXXX xxx General Complementary II (3 cr)
Seventh (Fall) Semester (TOTAL = 15 cr)	
COMP 330 **Theoretical Aspects of Computer Science** (3 cr, P - COMP 251) **COMP 420** **Files and Databases** (3 cr, P-COMP **302**) **ECSE 495** **Software Engineering Project** (3 cr, P-ECSE 321 and 42 departmental credits) XXXX xxx Technical Complementary III (3 cr) XXXX xxx Technical Complementary IV (3 cr)	

All courses are core courses except for technical complementaries and general complementaries. Core courses are shown in boldface above. All core courses must be passed with a grade "C" or better. Also, a grade of "C" is required for an ECSE xxx core course in order to proceed with its follow-on ECSE xxx course(s), and a grade of "C" is required for a MATH xxx course in order to proceed with its follow-on MATH xxx course(s). A grade of "D" is only acceptable for non-core courses.

Technical Complementaries are selected from a prescribed list of courses offered by the Departments of Computer Science and Electrical and Computer Engineering.

General complementary studies requirements:
1) U0, freshman students, must complete 3 credits from a special list which relate to the Impact of Technology on Society and 6 credits from a special list of Humanities and Social Sciences, and Administrative Studies and Law (see Section 3.4, Page 207 of the 2004-2005 McGill University Calendar).
2) U1, (students from Quebec CEGEP and French Baccalaureate), must complete 3 credits from a special list which relate to the Impact of Technology on Society and 3 credits from a special list of Humanities and Social Sciences, and Administrative Studies and Law (see Section 3.4, Page 207 of the 2004-2005 McGill University Calendar).

REVISED May 2004