

**UNIVERSITY OF NEW BRUNSWICK  
SOFTWARE ENGINEERING MATRIX**

**Start in 2011-12**

YEAR 1		YEAR 2		YEAR 3		YEAR 4	
TERM 1	TERM 2	TERM 3	TERM 4	TERM 5	TERM 6	TERM 7	TERM 8
<b>Math 1003</b> Intro to Calculus I (4-0-0) <input type="checkbox"/>	<b>Math 1013</b> Intro to Calculus II (4-0-0) <input type="checkbox"/>	<b>CS 2043</b> Software Eng. I (3-1*-2) <input type="checkbox"/>	<b>CS 2333</b> Computability & Formal Languages (3-1-0) <input type="checkbox"/>	<b>CS 2253**</b> Machine Level Programming (3-0-2) <input type="checkbox"/>	<b>CS 3043</b> Software Eng II (3-0-3) <input type="checkbox"/>	<b>SWE 4040</b> Design Project (0-0-6) <input type="checkbox"/>	
3	3	4	4	4	4	3	3
<b>Math 1503</b> Intro to Linear Algebra (4-0-0) <input type="checkbox"/>	<b>CS1003 *</b> Programming & Prob Solving (3-1-3*) <input type="checkbox"/>	<b>CS 1303</b> Discrete Structures (3-1-0) <input type="checkbox"/>	<b>INFO 1103<sup>(a)</sup></b> Data & Information Management (3-0-3) <input type="checkbox"/>	<b>CS 2383 ***</b> Data Structures & Algorithms (3-1-0) <input type="checkbox"/>	<b>CS 3613</b> Programming Languages (3-0-0) <input type="checkbox"/>	<b>SWE 4103/4203</b> Software Quality OR Software Evol (3-0-3*) <input type="checkbox"/>	<b>CMPE 3812</b> Data Comm and Networks (3-0-3*) <input type="checkbox"/>
3	4	4	4	4	4	3	4
<b>CS 1073</b> Computer Prog in Java (3-2-0) <input type="checkbox"/>	<b>CS1083</b> Computer Prog II (3-2-0) <input type="checkbox"/>	<b>CMPE 2213</b> Digital Systems I (3-1-3*) <input type="checkbox"/>	<b>CMPE 2412</b> Sim & Analysis (3-1-2) <input type="checkbox"/>	<b>CMPE 3221</b> Computer Org (3-1-3*) <input type="checkbox"/>	<b>CS 3503</b> System Analysis and Design (3-1-0) <input type="checkbox"/>	<b>CS 3383 ****</b> Algorithm Design & Analysis (3-1-0) <input type="checkbox"/>	<b>TE</b> <input type="checkbox"/>
4	4	4	4	4	4	4	4
<b>PHYS 1081 *****</b> Foundations of Physics for Engineers (3-0-3) <input type="checkbox"/>	<b>EE 1813</b> E & M (3-1-3*) <input type="checkbox"/>	<b>EE 2701</b> Electric Circuits (3-1-3*) <input type="checkbox"/>	<b>CSE</b> Eng. Economics (CE 3963/ME 3232) (3-0-0) <input type="checkbox"/>	<b>SWE 4103/4203</b> Software Quality OR Software Evol (3-0-3*) <input type="checkbox"/>	<b>CMPE 3232</b> Embedded Systems Design (3-0-2) (replaces ME2613) <input type="checkbox"/>	<b>CS3413</b> Operating Systems 1 (3-0-2) <input type="checkbox"/>	<b>TE</b> <input type="checkbox"/>
5	4	4	4	3	4	4	4
<b>ENGG 1003</b> Technical Communications (2-0-3) <input type="checkbox"/>	<b>CHEM 1982 + CHEM 1987</b> Chemistry (3-0-3) <input type="checkbox"/>	<b>BAS SCI</b> <input type="checkbox"/>	<b>BAS SCI</b> <input type="checkbox"/>	<b>CSE</b> Humanities & Social Sciences <input type="checkbox"/>	<b>CMPE 3242</b> Computer Arch (3-1-3*) <input type="checkbox"/>	<b>TE</b> <input type="checkbox"/>	<b>CSE</b> open <input type="checkbox"/>
4	5	5	3	3	4	4	3
<b>ENGG 1015</b> Design & Problem Solving (1-0-2) <input type="checkbox"/>		<b>STAT 2593</b> Probability & Statistics ((3-0-0) <input type="checkbox"/>	<b>CSE</b> Impact of Technology on Society <input type="checkbox"/>				<b>ENGG 4013</b> Law & Ethics (3-0-0) <input type="checkbox"/>
2		3	3				3
<b>ENGG 1001</b> Lecture Series <input type="checkbox"/>							
21	20	24	21	19	19	19	21

\* Replaced APSC 1023 Mechanics II in 2009

\*\*\*\*\* Replaced APSC 1013 Mechanics I in 2010

**Total Ch: 164**

CSE - Complementary Studies Elective; see [www.cs.unb.ca/~bgn/swe](http://www.cs.unb.ca/~bgn/swe) for more info on CSEs

TE - Technical Elective

BAS SCI Basic Science Elective

\*\* Replaced CS 2023 Proc. Program Dev. in 2010

\*\*\* Replaced CS 3323 Int. to Data Structures in 2010

\*\*\*\* Replaced CS 3933 Algorithms in 2010

(a) Replaced INFO 2103 in 2011, which replaced CS 2533 in 2008

Updated: June 15, 2011

