

UNIVERSITY OF NEW BRUNSWICK  
SOFTWARE ENGINEERING MATRIX

Start in 2016-2017

Student Name: \_\_\_\_\_  
Student Number: \_\_\_\_\_

Update Date: \_\_\_\_\_  
Updated by: \_\_\_\_\_

YEAR 1		YEAR 2		YEAR 3		YEAR 4	
TERM 1	TERM 2	TERM 3	TERM 4	TERM 5	TERM 6	TERM 7	TERM 8
MATH 1003 Intro to Calculus I <input type="checkbox"/> 3	MATH 1013 Intro to Calculus II <input type="checkbox"/> 3	CS 2043 Software Eng. I <input type="checkbox"/> 4	CS 2333 Computability & Formal Languages <input type="checkbox"/> 4	CS 2253** Machine Level Programming <input type="checkbox"/> 4	SWE 4403 <sup>(b)</sup> Software Architecture and Design Patterns <input type="checkbox"/> 4	SWE 4040 Design Project <input type="checkbox"/> 4	
MATH 1503 Intro to Linear Algebra <input type="checkbox"/> 3	CS 1003 * Programming & Problem Solving <input type="checkbox"/> 4	CS 1303 Discrete Structures <input type="checkbox"/> 4	INFO 1103 <sup>(a)</sup> Data & Information Management <input type="checkbox"/> 4	CS 2383 *** Data Structures & Algorithms <input type="checkbox"/> 4	CS 3613 Programming Languages <input type="checkbox"/> 4	SWE 4103 / 4203 Software Quality OR Software Evolution <input type="checkbox"/> 4	ECE3812 / CS3873 Data Comm. and Networking <input type="checkbox"/> 4
CS 1073 Computer Prog. I (in Java) <input type="checkbox"/> 4	CS 1083 Computer Prog. II (in Java) <input type="checkbox"/> 4	ECE 2214 ***** Digital Logic Design <input type="checkbox"/> 3	ECE2412/CS3113 Simulation and Engineering Analysis <input type="checkbox"/> 4 / 3	ECE 3221 Computer Organization <input type="checkbox"/> 4	CS 3503 Systems Analysis, Design & Proj. Mgmt. <input type="checkbox"/> 4	CS 3383 **** Algorithm Design & Analysis <input type="checkbox"/> 4	TE <input type="checkbox"/> 4
PHYS 1081 ***** Foundations of Physics for Engineers <input type="checkbox"/> 5	ECE 1813 Electricity and Magnetism <input type="checkbox"/> 4	ECE 2701 Electric Circuits and Electronics <input type="checkbox"/> 4	CSE Eng. Economics (CE 3963 / ME 3232) <input type="checkbox"/> 3	SWE 4103 / 4203 Software Quality OR Software Evolution <input type="checkbox"/> 4	ECE 3232 Embedded Systems Design <input type="checkbox"/> 4	CS 3413 Operating Systems I <input type="checkbox"/> 4	TE <input type="checkbox"/> 4
ENGG 1003 Technical Communications <input type="checkbox"/> 4	CHEM 1982 + CHEM 1987 Chemistry <input type="checkbox"/> 5	BAS SCI <input type="checkbox"/> 5	BAS SCI <input type="checkbox"/> 3	CSE Humanities & Social Sciences <input type="checkbox"/> 3	ECE 3242 Computer Architecture <input type="checkbox"/> 4	TE <input type="checkbox"/> 4	CSE open <input type="checkbox"/> 3
ENGG 1015 Design & Problem Solving <input type="checkbox"/> 2		STAT 2593 Probability & Statistics <input type="checkbox"/> 3	CSE Impact of Technology on Society <input type="checkbox"/> 3				ENGG 4013 Law & Ethics <input type="checkbox"/> 3
ENGG 1001 Lecture Series <input type="checkbox"/> 0		ECE 2215 ***** Digital Logic Lab <input type="checkbox"/> 1					
21	20	24	20 / 21	19	20	20	21

CSE - Complementary Studies Elective  
TE - Technical Elective  
BAS SCI Basic Science Elective

\* Replaced APSC 1023 Mechanics II in 2009  
\*\* Replaced CS 2023 Proc. Program Dev. in 2010  
\*\*\* Replaced CS 3323 Int. to Data Structures in 2010  
\*\*\*\* Replaced CS 3933 Algorithms in 2010  
\*\*\*\*\* Replaced APSC 1013 Mechanics I in 2010  
\*\*\*\*\* Replaced ECE 2213 by ECE 2214 + ECE 2215 in 2015

(a) Replaced INFO 2103 in 2011,  
which replaced CS 2533 in 2008  
(b) Replaced CS 3043 in 2012

Total Ch: 166  
Or 165

See <http://www.unb.ca/fredericton/jp/swe/current/index.html>  
for more info on CSE and BAS SCI

Template updated: July 20, 2016