

**UNIVERSITY OF NEW BRUNSWICK
SOFTWARE ENGINEERING MATRIX**

Start in 2018-2019

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 2263 **** Systems Software Development <input type="checkbox"/> 4	SWE 4403 ** Software Arch and Design Patterns <input type="checkbox"/> 4	SWE 4040 Design Project <input type="checkbox"/> 7	
MATH 1503 Intro to Linear Algebra <input type="checkbox"/> 3	INFO 1103* Data & Information Management <input type="checkbox"/> 4	CS 1303 Discrete Structures <input type="checkbox"/> 4	STAT 2593 Probability & Statistics <input type="checkbox"/> 3	CS 2383 Data Structures & Algorithms <input type="checkbox"/> 4	CS 3503 Systems Analysis, Design & Project Mgmt. <input type="checkbox"/> 4	CS 3383 **** Algorithm Design & Analysis <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	ECE 3232 Embedded Systems Design <input type="checkbox"/> 4	CS 3413 Operating Systems I <input type="checkbox"/> 4	SWE 4203 Software Evolution & Maintenance <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 Software Quality & Project Management <input type="checkbox"/> 4	ECE 3242 Computer Architecture <input type="checkbox"/> 4	TE <input type="checkbox"/> 4	TE <input type="checkbox"/> 3
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	TE <input type="checkbox"/> 4	TE <input type="checkbox"/> 3	CSE open <input type="checkbox"/> 3
ENGG 1015 Design & Problem Solving <input type="checkbox"/> 2		CS 2613 ***** Programming Languages Lab <input type="checkbox"/> 4	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	25	20	19	20	15	24
Or				19			

Total Ch: 164
Or 163

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

***** New core course added in 2018

**** Replaced CS 2253 in 2017

*** Replaced ECE 2213 by ECE 2214 + ECE 2215 in 2015

** Replaced CS 3043 in 2012

* Replaced INFO 2103 in 2011

†ECE2412 is required for students pursuing biomedical option

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

Template updated: March 16, 2018