

UNIVERSITY OF NEW BRUNSWICK
SOFTWARE ENGINEERING MATRIX

Start in 2017-2018

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 Architecture and Design Patterns <input type="checkbox"/> 4 | SWE 4040 Design Project <input type="checkbox"/> 4 3 | |
| 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* Data & Information Management <input type="checkbox"/> 4 | CS 2383 Data Structures & Algorithms <input type="checkbox"/> 4 | CS 3503 Systems Analysis, Design & Proj. 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 Quality <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 <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 | | 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 | 19 | 20 |

Total Ch: 164
Or 163

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

**** 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

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

†ECE2412 is required for students pursuing biomed option

Template updated: August 29, 2017