

SFU Engineering Science – **COMPUTER OPTION**
2012/04

YEAR 1			
TERM 1, FALL CHEM 121-4 General Chemistry & Lab CMPT 128-3 Intro to Computing Science & Programming for Engineers ENSC 100W-3 Engineering Society & Technlgy ENSC 101W-1 Writing Process, Persuasion, & Presentations MATH 151-3 Calculus I – or MATH 150 PHYS 120-3 Modern Physics & Mechanics	TERM 2, SPRING ENSC 102-1 Form, Style, & Professional Genres ENSC 150-3 Intro to Computer Design MATH 152-3 Calculus II MATH 232-3 Elementary Linear Algebra PHYS 121-3 Optics, Electricity, & Magnetism PHYS 131-2 General Physics Lab Cmpl I First Complementary Elective	SUMMER	
YEAR 2			
TERM 3, FALL ENSC 215-3 Microcontroller/Assembly Programming ENSC 220-3 Electronic Circuits I MACM 101-3 Discrete Mathematics MATH 251-3 Calculus III MATH 310-3 Differential Equations STAT 270-3 Intro to Probability & Statistics	SPRING Co-op Term	TERM 4, SUMMER CMPT 225-3 Data Structures & Programming ENSC 204-1 Graphical Communication for Engineering ENSC 224-3 Electronics Devices ENSC 225-4 Microelectronics ENSC 250-3 Intro to Computer Architecture ENSC 320-3 Electric Circuits II	
YEAR 3			
FALL Co-op Term	TERM 5, SPRING CMPT 275-4 Software Engineering MACM 201-3 Discrete Mathematics II ENSC 304-1 Human Factors & Usability Engineering ENSC 350-3 Digital Systems Design ENSC 351-4 Real Time & Embedded Systems ENSC 380-3 Linear Systems	SUMMER Co-op Term	TERM 6, FALL ECON 103-4 Principles of Microeconomics ENSC 325-4 Microelectronics II ENSC 327-4 Communication Systems ENSC 383-4 Feedback Control Systems Scie I First Science Elective
YEAR 4			
TERM 7, SPRING CMPT 300-3 Operating Systems I ENSC 305-1 Project Documentation & Team Dynamics ENSC 406-2 Social Responsibility and Professional Practice ENSC 440-4 Capstone Engineering Science Project MACM 316-3 Numerical Analysis I ENSC 4XX-4 First Engineering Science Elective		SUMMER	TERM 8, FALL ENSC 201-3 The Business of Engineering ENSC 450-4 VLSI Systems Design Cmpl II Second Complementary Elective ENSC 4XX-4 Second Engineering Science Elective Scie II Second Science Elective

Additional Requirements for Honors: ENSC 498-3 Engineering Science Thesis Proposal
 ENSC 499-9 Engineering Science Undergraduate Thesis