

Name: \_\_\_\_\_ ID: \_\_\_\_\_ Date: \_\_\_\_\_

Students may follow the **Standard Schedule** OR the **Advanced Schedule**. Further details are [online](#).

Students are strongly advised to **follow these schedules as closely as possible** so that prerequisites are met for the following terms. Consequences of deviating from this schedule are the responsibility of the student.

**STANDARD SCHEDULE**

**YEAR 1**

<i>TERM 1, FALL</i>	<i>TERM 2, SPRING</i>	<i>SUMMER (Standard Schedule)</i>
<input type="checkbox"/> ENSC 151-4 Intro to software development <input type="checkbox"/> ENSC 100W-3 Engineering, Science and Society <input type="checkbox"/> ENSC 105W-3 Process, Form and Conv. in Prof. Genres <input type="checkbox"/> ENSC 120-2 Intro to Electronics Lab Instruments <input type="checkbox"/> MATH 151-3 Calculus I (or MATH 150-4)	<input type="checkbox"/> ENSC 180-3 Intro to Engineering Analysis <input type="checkbox"/> MATH 152-3 Calculus II <input type="checkbox"/> MATH 232-3 Applied Linear Algebra <input type="checkbox"/> PHYS 120-3 Mechanics and Modern Physics	<input type="checkbox"/> CHEM 121-4 General Chemistry & Lab I <input type="checkbox"/> PHYS 121-3 Optics, Electricity, and Magnetism <input type="checkbox"/> MATH 260-3 Intro to Ordinary Differential Equations <input type="checkbox"/> Complementary Studies (CMPL) Elective I#

**YEAR 2**

<i>TERM 3, FALL</i>	<i>SPRING</i>	<i>TERM 4, SUMMER</i>
<input type="checkbox"/> ENSC 204-1 Graphical Communication for Engineering <input type="checkbox"/> ENSC 220-4 Electric Circuits I <input type="checkbox"/> ENSC 251-4 Software Design and Analysis for Engineers <input type="checkbox"/> ENSC 252-4 Fundamentals of Digital Logic and Design <input type="checkbox"/> MATH 251-3 Calculus III	CO-OP TERM I	<input type="checkbox"/> ENSC 225-4 Microelectronics I <input type="checkbox"/> ENSC 254-4 Introduction to Computer Organization <input type="checkbox"/> ENSC 280-4 Engineering Measurements & Data Analysis <input type="checkbox"/> ENSC 320-4 Electric Circuits II <input type="checkbox"/> MATH 254-3 Vector and Complex Analysis for Applied Sciences

**YEAR 3**

<i>TERM 5, FALL</i>	<i>TERM 6, SPRING</i>	<i>SUMMER</i>
<input type="checkbox"/> ECON 103-4 Principles of Microeconomics <input type="checkbox"/> ENSC 316-3 Introduction to Electrodynamics for Engineers <input type="checkbox"/> ENSC 324-3 Electronic Devices <input type="checkbox"/> ENSC 351-4 Embedded and Real Time System Software <input type="checkbox"/> ENSC 380-3 Linear Systems	<input type="checkbox"/> ENSC 325-4 Microelectronics II <input type="checkbox"/> ENSC 327-4 Communication Systems <input type="checkbox"/> ENSC 350-4 Digital Systems Design <input type="checkbox"/> ENSC 383-4 Feedback Control Systems <input type="checkbox"/> Complementary Studies (CMPL) Elective II#	CO-OP TERM II

**YEAR 4**

<i>FALL</i>	<i>TERM 7, SPRING</i>	<i>TERM 8, SUMMER</i>
CO-OP TERM III^	<input type="checkbox"/> ENSC 427-4 Communication Networks <b>OR</b> <input type="checkbox"/> ENSC 428-4 Digital Communications <input type="checkbox"/> ENSC 405W-3 Project Documentation, User Interface Design, and Group Dynamics <input type="checkbox"/> ENSC 410-3 The Business of Engineering <input type="checkbox"/> ENSC 416-4 Introduction to High Frequency Circuit Design <input type="checkbox"/> Engineering Science & Design (ESD) Elective I-4*	<input type="checkbox"/> ENSC 406-2 Engineering Ethics, Law, and Professional Practice <input type="checkbox"/> ENSC 425-4 Electronic System Design <input type="checkbox"/> ENSC 426-4 High Frequency Electronics <input type="checkbox"/> ENSC 440-3 Capstone Engineering Science Project <input type="checkbox"/> Engineering Science & Design (ESD) Elective II-4*  <input type="checkbox"/> Engineering Science & Design (ESD) Elective III-4*

**ADDITIONAL REQUIREMENTS FOR HONOURS:**

<input type="checkbox"/> ENSC 498-1 Engineering Science Thesis Proposal <input type="checkbox"/> ENSC 499-9 Engineering Science Undergraduate Thesis <input type="checkbox"/> <b>Minimum 3.0 CGPA and UDGPA</b> required for degree
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**GPA REQUIREMENTS:**

<input type="checkbox"/> <b>Minimum 2.0 CGPA and UDGPA</b> required for degree <input type="checkbox"/> <b>Minimum 2.4 CGPA</b> required for registration in UD courses <input type="checkbox"/> <b>Minimum 2.2 CGPA</b> required to remain in Engineering
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Additional Notes

\* **ESD Electives** consist of a minimum of 12 units chosen from the approved list on the back of this planner.

# **Complementary Electives** - At least one CMPL Elective should be a B-Hum, and at least one should be from *Central Issues, Methodology & Thought* Process list: <http://www.sfu.ca/engineering/current-students/undergraduate-students/requirements-and-policies/electives.html>

^ Please check with your co-op coordinator to confirm that all **co-op requirements** have been met.

### Engineering Science and Design (ESD) Electives:

Students in the Electronics Engineering option must complete **12 units of Engineering Science & Design Electives**, chosen from the course list below. For the Electronics option, only MACM 316 can be used as a 300 level ESD elective, and only one 300 level ESD elective is permitted.

- ENSC 424-4 Multimedia Communications Engineering
- ENSC 427-4 Communication Networks
- ENSC 428-4 Data Communications
- ENSC 429-4 Digital Signal Processing
- ENSC 450-4 VLSI Systems Design
- ENSC 452-4 Advanced Digital System Design
- ENSC 470-4 Optical and Laser Engineering Applications
- ENSC 474-4 Digital/Medical Image Processing
- ENSC 475-4 Biomedical Instrumentation
- ENSC 476-4 Biophotonics and Microscopy Techniques
- ENSC 477-4 Biomedical Image Acquisition
- ENSC 483-4 Modern Control Systems
- ENSC 489-4 Computer Aided Design and Manufacturing
- ENSC 495-4 Introduction to Microelectronic Fabrication
- MACM 316-3 Numerical Analysis I

Policy	Link
GPA Requirements and Co-op	<a href="http://www.sfu.ca/engineering/current-students/undergraduate-students/information-for-new-students.html">http://www.sfu.ca/engineering/current-students/undergraduate-students/information-for-new-students.html</a>
Residency Requirements	<a href="http://www.sfu.ca/students/calendar/faculties-research/faculty-applied-sciences.html">http://www.sfu.ca/students/calendar/faculties-research/faculty-applied-sciences.html</a>
Complementary (CMPL) Electives	<a href="http://www.sfu.ca/engineering/current-students/undergraduate-students/requirements-and-policies/electives.html">http://www.sfu.ca/engineering/current-students/undergraduate-students/requirements-and-policies/electives.html</a>
Prerequisites and Course Descriptions	<a href="http://www.sfu.ca/students/calendar/programs/engineering-science-electronics-engineering-option/major/bachelor-of-appliedscience.html">http://www.sfu.ca/students/calendar/programs/engineering-science-electronics-engineering-option/major/bachelor-of-appliedscience.html</a>
Mandatory Co-op	<a href="http://www.sfu.ca/engineering/current-students/undergraduate-students/Co-op-and-work-experience.html">http://www.sfu.ca/engineering/current-students/undergraduate-students/Co-op-and-work-experience.html</a>
WQB Requirements for Engineering Students	<a href="http://www.sfu.ca/engineering/current-students/undergraduate-students/requirements-and-policies/wqb-requirements.html">http://www.sfu.ca/engineering/current-students/undergraduate-students/requirements-and-policies/wqb-requirements.html</a>
Duplication/Repeats of Courses	<a href="http://www.sfu.ca/engineering/current-students/undergraduate-students/requirements-and-policies/repeat-policy.html">http://www.sfu.ca/engineering/current-students/undergraduate-students/requirements-and-policies/repeat-policy.html</a>
Course Sequencing	<a href="http://www.sfu.ca/engineering/current-students/undergraduate-students/course-schedule.html">http://www.sfu.ca/engineering/current-students/undergraduate-students/course-schedule.html</a>