

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**

TERM 1, FALL	TERM 2, SPRING	SUMMER (Standard Schedule)
ENSC 151-4 Intro to software development ENSC 100W-3 Engineering, Science and Society ENSC 105W-3 Process, Form and Conv. in Prof. Genres ENSC 120-2 Intro to Electronics Lab Instruments MATH 151-3 Calculus I (or MATH 150-4)	ENSC 180-3 Intro to Engineering Analysis MATH 152-3 Calculus II MATH 232-3 Applied Linear Algebra PHYS 120-3 Mechanics and Modern Physics	CHEM 121-4 General Chemistry & Lab I PHYS 101-3 Fundamentals of

CO-OP TERM I

ENSC 225-4 Microelectronics I  
 ENSC 254-4 Introduction to Computer Organization  
 ENSC 280-4 Engineering Measurements and Data Analysis  
 ENSC 320-4 Electric Circuits II  
 MATH 254-3 Vector and Complex Analysis for Applied Sciences

**YEAR 3**

TERM 5, FALL	TERM 6, SPRING	SUMMER
ENSC 324-3 Elect4W* n BT54 /P <</MCID 97 >>BDC 370.63 339		

**Minimum 3.0 CGPA and UDGPA required for degree**  
**Minimum 3.0 CGPA to remain in this option**

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\* ESD Electives consist of a minimum of 8 units chosen from the approved list on the back of this planner.

# **Complimentary 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>

^ **PHYS Electives** consist of a minimum of 3 courses. See the PHYS Electives section on the back of this planner.

^ 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 Engineering Physics Option must complete **8 units of Engineering Science and Design Electives** from the list below. Students must have the required 300 level prerequisites in order to take these courses. Only one 300 level course from the approved list below can be used to fulfill ESD elective requirements.

ENSC 327-4 Communication Systems  
 ENSC 350-4 Digital Systems Design  
 ENSC 424-4 Multimedia Communications  
 Engineering  
 ENSC 425-4 Electronic System Design  
 ENSC 426-4 High Frequency Electronics  
 ENSC 427-4 Communication Networks

ENSC 428-4 Data Communications  
 ENSC 450-4 VLSI Systems Design  
 ENSC 452-4 Advanced Digital System Design  
 ENSC 474-4 Digital/Medical Image Processing  
 ENSC 476-4 Biophotonics and Microscopy  
 Techniques  
 ENSC 481-4 Design for Reliability

Unacceptable ESD electives for engineering physics students: ENSC 477-4 Biomedical Image Acquisition

### Physics (PHYS) Electives:

In addition to the required physics courses and engineering science and design electives, students must complete **three** physics Electives. At least one physics elective must be at the 400 level.

PHYS 347-3 Introduction to Biological Physics  
 PHYS 390-3 Introduction to Astrophysics  
 PHYS 395-3 Computational Physics  
 PHYS 413-3 Advanced Mechanics  
 PHYS 415-3 Quantum Mechanics II

PHYS 445-3 Statistical Physics  
 PHYS 465-3 Solid State Physics  
 PHYS 485-3 Particle Physics  
 PHYS 490-3 General Relativity and Gravitation

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	