

Please Note - This schedule is subject to change without notice, always consult Student Information Management System (SIMS) for the most current and accurate information.

- A C- grade or better in prerequisite courses is required to register in engineering science courses
- Minimum 2.4 CGPA is required for direct registration in upper division courses (excluding ENSC 320)
- Other Faculties' students may not register with a CGPA below 2.4
- Online enrollment in ENSC 3XX and 4XX courses is restricted to Engineering Science students who have declared their option.
- Tutorials without specified days and times will occur during the specified lecture time

Contact ensccrd@sfu.ca Ext.2-5910

ENSC 100W

Engineering, Science and Society (3) (280)

REQ-Corequisite: ENSC 105W. Students with credit for ENSC 100, CMPT 106, ENSC 106, or MSE 102 may not take this course for further credit.

#5521	D100	Lecture	Mon	14:30 – 16:20	AQ3182	Michael Hegedus
			Wed	14:30 – 15:20	B9200	Michael Hegedus
#5632	LA01	Laboratory (8)	Mon	10:30 – 11:20	WMC2530	Michael Hegedus
#5633	LA02	Laboratory (8)	Mon	10:30 – 11:20	RCB5100	Michael Hegedus
#5634	LA03	Laboratory (8)	Mon	11:30 – 12:20	WMC2530	Michael Hegedus
#5635	LA04	Laboratory (8)	Mon	11:30 – 12:20	RCB5100	Michael Hegedus
#5636	LA05	Laboratory (8)	Mon	13:30 – 14:20	WMC2530	Michael Hegedus
#5637	LA06	Laboratory (8)	Mon	13:30 – 14:20	RCB5100	Michael Hegedus
#5638	LA07	Laboratory (8)	Tue	10:30 – 11:20	WMC2530	Michael Hegedus
#5639	LA08	Laboratory (8)	Tue	10:30 – 11:20	RCB5100	Michael Hegedus
#5640	LA09	Laboratory (8)	Tue	11:30 – 12:20	RCB7102	Michael Hegedus
#5641	LA10	Laboratory (8)	Tue	11:30 – 12:20	RCB5100	Michael Hegedus
#5642	LA11	Laboratory (8)	Tue	12:30 – 13:20	RCB7101	Michael Hegedus
#5643	LA12	Laboratory (8)	Tue	12:30 – 13:20	RCB5100	Michael Hegedus
#5644	LA13	Laboratory (8)	Tue	13:30 – 14:20	RCB7101	Michael Hegedus
#5645	LA14	Laboratory (8)	Tue	13:30 – 14:20	RCB5100	Michael Hegedus
#5646	LA15	Laboratory (8)	Wed	10:30 – 11:20	RCB7102	Michael Hegedus
#5647	LA16	Laboratory (8)	Wed	10:30 – 11:20	RCB5100	Michael Hegedus
#5648	LA17	Laboratory (8)	Wed	11:30 – 12:20	RCB7102	Michael Hegedus
#5649	LA18	Laboratory (8)	Wed	11:30 – 12:20	RCB5100	Michael Hegedus
#5650	LA19	Laboratory (8)	Wed	13:30 – 14:20	WMC2530	Michael Hegedus
#5651	LA20	Laboratory (8)	Wed	13:30 – 14:20	RCB5100	Michael Hegedus
#5652	LA21	Laboratory (8)	Thu	10:30 – 11:20	RCB7102	Michael Hegedus
#5653	LA22	Laboratory (8)	Thu	10:30 – 11:20	WMC2530	Michael Hegedus
#5654	LA23	Laboratory (8)	Thu	11:30 – 12:20	RCB7102	Michael Hegedus
#5655	LA24	Laboratory (8)	Thu	11:30 – 12:20	WMC2530	Michael Hegedus
#5656	LA25	Laboratory (8)	Thu	12:30 – 13:20	WMC2530	Michael Hegedus
#5657	LA26	Laboratory (8)	Thu	12:30 – 13:20	RCB5100	Michael Hegedus
#5658	LA27	Laboratory (8)	Fri	10:30 – 11:20	RCB7101	Michael Hegedus
#5659	LA28	Laboratory (8)	Fri	10:30 – 11:20	WMC2530	Michael Hegedus
#5660	LA29	Laboratory (8)	Fri	11:30 – 12:20	WMC2530	Michael Hegedus
#5661	LA30	Laboratory (8)	Fri	11:30 – 12:20	RCB7101	Michael Hegedus
#5662	LA31	Laboratory (8)	Fri	13:30 – 14:20	RCB5100	Michael Hegedus
#7899	LA32	Laboratory (8)	Mon	13:30 – 14:20	AQ5015	Michael Hegedus
#7900	LA33	Laboratory (8)	Wed	11:30 – 12:20	AQ5046	Michael Hegedus
#7901	LA34	Laboratory (8)	Fri	13:30 – 14:20	AQ5019	Michael Hegedus
#7902	LA35	Laboratory (8)	Fri	13:30 – 14:20	WMC2530	Michael Hegedus

ENSC 105W	Process of Prof. Writing (3) (280)					
	REQ-Corequisite: CMPT 106, ENSC 100 or ENSC 106. Students with credit for CMPT 105W, ENSC 102 or MSE 101W may not take ENSC 105W for further credit					
#5517	D100	Lecture	M/W/F	12:30 – 13:20	AQ3182	Michael Sjoerdsma
ENSC 120	Introduction to Electronics Laboratory Instruments Operation and Measurement Techniques (2) (300)					
	Prerequisite: BC Pre-Calculus 12 and BC Physics 12 (or equivalents).					
#5514	D100	Lecture	Thu	8:30 – 10:20	B9201	Atousa Hajshirmohammadi
#7844	LA08	Laboratory (60)	Tue	10:30 – 12:20	ASB9800A	Atousa Hajshirmohammadi
#7845	LA09	Laboratory (60)	Tue	10:30 – 12:20	ASB9800A	Atousa Hajshirmohammadi
#7846	LA10	Laboratory (60)	Wed	10:30 – 12:20	ASB9800A	Atousa Hajshirmohammadi
#7847	LA11	Laboratory (60)	Wed	10:30 – 12:20	ASB9800A	Atousa Hajshirmohammadi
#7848	LA12	Laboratory (60)	Thu	10:30 – 12:20	ASB9800A	Atousa Hajshirmohammadi
#7849	LA13	Laboratory (60)	Thu	10:30 – 12:20	ASB9800A	Atousa Hajshirmohammadi
ENSC 151	Intro. to Software Development for Engineers (4) (300)					
	Prerequisite: BC Math 12 (or equivalent, or any of MATH 100, 150, 151, 154, or 157, with a minimum grade of C-). Students who have taken ENSC 251, CMPT 125, 129, 135, or CMPT 200 or higher first may not then take this course for further credit.					
#5603	D100	Lecture	Tue	14:30 – 16:20	B9201	Craig Scratchley
			Thu	14:30 – 16:20	C9001	Craig Scratchley
#5604	LA01	Laboratory (50)	Tue	8:30 – 10:20	ASB8800	Craig Scratchley
#5605	LA02	Laboratory (50)	Tue	12:30 – 14:20	ASB8800	Craig Scratchley
#5606	LA03	Laboratory (50)	Tue	16:30 – 18:20	ASB8800	Craig Scratchley
#5607	LA04	Laboratory (50)	Thu	12:30 – 14:20	ASB8800	Craig Scratchley
#5608	LA05	Laboratory (50)	Thu	16:30 – 18:20	ASB8800	Craig Scratchley
#7914	LA07	Laboratory (50)	Fri	14:30 – 16:20	ASB8800	Craig Scratchley
ENSC 204	Graphical Communication for Engineering (1) (300)					
	Students who have taken ENSC 104, MSE 100 or SEE 100 first may not then take this course for further credit.					
#5520	D100	Lecture	Mon	9:30 – 10:20	SWH10081	Michael Sjoerdsma
ENSC 220	Electric Circuits I (4) (134)					
	REQ-(PHYS 121 or PHYS 126 or PHYS 141), ENSC 120, MATH 232 and MATH 310. MATH 232 and/or MATH 310 may be taken concurrently. Students with credit for MSE 250 cannot take this course for further credit					
#5516	D100	Lecture	Tue/Thu	16:30 – 18:20	WMC3260	Ash Parameswaran
#5663	LA01	Laboratory (67)	Wed	12:30 – 14:20	ASB9800A	Ash Parameswaran
#5664	LA02	Laboratory (67)	Wed	14:30 – 16:20	ASB9800A	Ash Parameswaran
Tentative #5665	LA03	Laboratory (35)	Wed	16:30 – 18:20	ASB9800A	Ash Parameswaran
ENSC 225	Microelectronics I (4) (100)					
	REQ-(ENSC 220 or MSE 250), (MATH 232) and (MATH 310). Students taking or with credit for ENSC 226 or MSE 251 may not take ENSC 225 for further credit. This course has a mandatory lab for all students to complete the course requirements. This lab is an open lab.					
#5590	D100	Lecture	Tue/Thu	12:30 – 14:20	AQ3154	Majid Shokoufi
#5591	LA01	Required Lab	TBA	TBA	TBA	Majid Shokoufi

ENSC 251
Software Design & Analysis for Engineers (4) (140)

REQ-(CMPT 128 or CMPT 135), or (CMPT 125 and CMPT 127). Seats in this course are reserved for students in the Engineering Science Major or the minor in Computer and Electronics Design program.

#5524	D100	Lecture	Tue/Thu	10:30 – 12:20	EDB7618	Craig Scratchley
#5530	D101	Tutorial	<i>One weekly hour of tutorial will occur within the scheduled lecture time</i>			Craig Scratchley
#5531	LA01	Laboratory (50)	Mon	12:30 – 14:20	ASB8800	Craig Scratchley
#5532	LA02	Laboratory (50)	Mon	14:30 – 16:20	ASB8800	Craig Scratchley
#5533	LA03	Laboratory (40)	Mon	16:30 – 18:20	ASB8800	Craig Scratchley

ENSC 252
Fundamentals of Digital Logic & Design (4) (162)

REQ-(CMPT 128 or CMPT 125 or CMPT 126 or CMPT 135). Students with credit for ENSC/CMPT 150 or ENSC329/MSE 350 cannot take this course for further credit.

#5525	D100	Lecture	Tue/Thu	8:30 – 10:20	C9002	Majid Shokoufi
#5526	D101	Tutorial	<i>One weekly hour of tutorial will occur within the scheduled lecture time</i>			Majid Shokoufi
#5527	LA01	Laboratory (54)	Mon	12:30 – 14:20	ASB10877 & ASB10879	Majid Shokoufi
#5528	LA02	Laboratory (54)	Mon	14:30 – 16:20	ASB10877 & ASB10879	Majid Shokoufi
#5529	LA03	Laboratory (54)	Mon	16:30 – 18:20	ASB10877 & ASB10879	Majid Shokoufi

ENSC 316
Engineering Electromagnetics 1 (3) (85)

REQ- MATH 251 and (ENSC 220 or MSE 250).

#5544	D100	Lecture	Wed/Fri	14:30 – 16:20	C9000	Bernhard Rabus
#5545	D101	Tutorial	<i>One weekly hour of tutorial will occur within the scheduled lecture time</i>			Bernhard Rabus

ENSC 324
Electronic Devices (3) (125)

REQ- (ENSC 220 or MSE 250), MATH 232, and MATH 310. Students with credit for ENSC 224 or PHYS 365 may not take ENSC 324 for further credit.

#5538	D100	Lecture	Tue/Thu	8:30 – 10:20	BLU9660	Shawn Sederberg
#6487	D101	Tutorial	TBA	TBA	TBA	Shawn Sederberg
#6488	LA01	Required Lab	TBA	TBA	TBA	Shawn Sederberg

ENSC 350
Digital Systems Design (4) (96)

REQ-(ENSC 215 and either ENSC 250 or CMPT 250) or (ENSC 252 and ENSC 254)

#5596	D100	Lecture	Wed/Fri	8:30 – 10:20	K9500	Lakshman One
#5597	D101	Tutorial	TBA	TBA	TBA	Lakshman One
#5693	LA01	Laboratory (48)	Fri	10:30 – 12:20	ASB 10877 & ASB 10879	Lakshman One
#5694	LA02	Laboratory (48)	Fri	13:30 – 15:20	ASB 10877 & ASB 10879	Lakshman One

ENSC 351
Embedded and Real Time System Software (4) (150)

REQ-(CMPT 128 and ENSC 215 and ENSC 250) or ENSC 254 or (CMPT 225 and (CMPT 250 or CMPT 295)) and a minimum of 60 credit hours/units. Students with credit for or who are concurrently enrolled in ENSC 451/MSE 450 cannot take this course for further credit.

#5515	D100	Lecture	Tue	10:30 – 12:20	AQ3181	Morteza Badali
			Thu	10:30 – 12:20	SWH10041	Morteza Badali
#5548	D101	Tutorial	TBA	TBA	TBA	Morteza Badali
#5522	LA01	Laboratory (45)	Tue	12:30 – 14:20	ASB9815	Morteza Badali
#5523	LA02	Laboratory (45)	Tue	16:30 – 18:20	ASB9815	Morteza Badali
#5535	LA03	Laboratory (45)	Thu	12:30 – 14:20	ASB9815	Morteza Badali
#7858	LA04	Laboratory (45)	Thu	16:30 – 18:20	ASB9815	Morteza Badali

ENSC 370
Biomedical Engineering Directions (3) (20)

REQ-Completion of at least 25 units of engineering science (ENSC) courses.

#5677	D100	Lecture	Wed	10:30 – 12:20	AQ5030	Bonnie Gray
#5540	D101	Tutorial	Fri	10:30 – 12:20	AQ5006	Bonnie Gray

ENSC 380
Linear Systems (3) (175)

REQ-ENSC 180, 220 (or MSE 250) and MATH 310. Students with credit for MSE 280 may not take ENSC 380 for further credit.

#5536	D100	Lecture	Tue/Thu	14:30 – 16:20	WMC3260	Atousa Hajshirmohammadi
#6499	D101	Tutorial	TBA	TBA	TBA	Atousa Hajshirmohammadi

ENSC 385
Statics and Strength of Materials (3) (50)

REQ: (PHYS 120 or PHYS 140) and MATH 152. Students with credit for ENSC 281 or MSE 221 cannot take this course for further credit.

#5539	D100	Lecture	Tue/Thu	8:30 – 10:20	SWH10051	Shervin Jannesar
#6508	LA01	Required Lab	TBA	TBA	TBA	Shervin Jannesar

ENSC 440
Capstone B: Engineering Design Project (3) (55)

ENSC 405W. Students will be automatically enrolled in ENSC 440 in the term immediately following successful completion of ENSC 405W. Online enrollment in this course is restricted to Engineering students who have declared their option.

#5543	E100	Lecture	Wed	17:30 – 19:20	BLU10021	Shervin Jannesar
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ENSC 453
Programming for Heterogeneous Computing Systems (4) (35) - Constrained elective

4th-year+ Computer Engineering **elective** undergraduates. REQ- ENSC 350 and ENSC 351. THIS COURSE IS COMBINED WITH ENSC 894 G100.

#5601	D100	Lecture	Tue	10:30 – 12:20	WMC2503	Zhenman Fang
			Thu	10:30 – 12:20	AQ4120	Zhenman Fang
#7922	LA02	Laboratory	Tue	14:30 – 16:20	ASB9815	Zhenman Fang
#7923	LA03	Laboratory	Thu	14:30 – 16:20	ASB9815	Zhenman Fang

ENSC 477
Biomedical Image Acquisition (4) (40) – This cannot be used as an ESD Elective.

REQ-(ENSC 380 or MSE 280) with a minimum grade of C- and a minimum of 80 units. Students with credit for ENSC 374 cannot take this course for further credit. THIS COURSE IS COMBINED WITH ENSC 895 G100.

#5587	D100	Lecture	Tue/Thu	8:30 – 10:20	AQ5037	Bob Gill
#6693	D101	Tutorial	TBA	TBA	TBA	Bob Gill
#6694	LA01	Laboratory	TBA	TBA	TBA	Bob Gill



SCHOOL OF ENGINEERING SCIENCE
UNDERGRADUATE COURSE SCHEDULE
FALL 2023 SEMESTER

TEKX101

3D Printing Technologies (3) (40)

Students will learn the basic concepts of 3D printing, computer design tools, and the use of 3D scanners to make replicas of existing objects. Students will complete several 3D printed projects within the course. Quantitative/Breadth-Science.

#5613	D100	Lecture	Fri	12:30 – 14:20	AQ4140	Juan Ferrer
#5614	D101	Tutorial	Fri	14:30 – 16:20	AQ4140	Juan Ferrer