

SIMON FRASER UNIVERSITY
SCHOOL OF ENGINEERING SCIENCE
UNDERGRADUATE COURSE SCHEDULE: SUMMER SEMESTER 2021

(Contact: Nathan Owen ensccrd@sfu.ca x25910)

****This schedule is subject to change without notice,
always consult SIS 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*

ENSC 220

Electric Circuits I (4)

REQ-(PHYS 121 or PHYS 126 or PHYS 141) and (ENSC 120). Corequisite: MATH 232 and MATH 210. MATH 232 and/or MATH 310 may be taken concurrently. Students with credit for MSE 250 cannot take this course for further credit. Seats in this course are reserved for students in the Engineering Science or the minor in Computer and Electronics Design program.

#3643	D100	Lecture	Tue/Thu	14:30 – 16:20	REMOTE	Ash Parameswaran
#3707	D101	Tutorial				Ash Parameswaran
#3708	LA01	Laboratory	Wed	14:30 – 18:20	ASB9800A	Ash Parameswaran

ENSC 225

Microelectronics I (4)

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.

#3620	E100	Lecture	Mon/Wed	16:30 - 18:20	REMOTE	Marek Syrzycki
#3711	E101	Tutorial				Marek Syrzycki
#3628	LA01	Required Lab			REMOTE	Marek Syrzycki

ENSC 251

Software Design & Analysis for Engineers (4)

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.

#3644	D100	Lecture	Mon/Wed	08:30 - 10:20	REMOTE	Zhenman Fang
#3651	D101	Tutorial				Zhenman Fang
#3646	LA01	Laboratory	Fri	08:30 - 10:50	REMOTE	Zhenman Fang
#3647	LA02	Laboratory	Fri	11:00 - 13:20	REMOTE	Zhenman Fang

ENSC 252

Fundamentals of Digital Logic & Design (4)

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.

#5143	D200	Lecture	Tue/Thu	9:30 – 11:20	REMOTE	Lakshman One
#5144	D201	Tutorial				Lakshman One
#3649	LA02	Laboratory	Fri	08:30 - 10:50	REMOTE	Lakshman One
#3650	LA03	Laboratory	Fri	15:30 - 17:50	REMOTE	Lakshman One
#5145	LA04	Laboratory	Thu	10:30 – 12:50	REMOTE	Lakshman One
#5146	LA05	Laboratory	Fri	08:30 – 10:50	REMOTE	Lakshman One
#5147	LA06	Laboratory	Fri	15:30 - 17:50	REMOTE	Lakshman One

ENSC 254**Introduction to Computer Organization (4)**

REQ-(ENSC 251 and ENSC 252) or (CMPT 150 and CMPT 225 and enrolled as a Computer Science Major). ENSC 254 is a required course for for all Engineering Science Majors and Honours students (no course substitutions are permitted). Students with credit for; or who are concurrently enrolled in ENSC/CMPT 250 or ENSC 329 / MSE 350 cannot take this course for further credit. Seats in this course are reserved for students in Engineering Science program.

#3640	D100	Lecture	Tue/Thu	08:30 - 10:20	REMOTE	Craig Scratchley
#3641	D101	Tutorial				Craig Scratchley
#3741	LA01	Laboratory	Fri	10:30 - 12:20	REMOTE	Craig Scratchley
#3742	LA02	Laboratory	Thu	10:30 - 12:20	REMOTE	Craig Scratchley
#3743	LA03	Laboratory				Craig Scratchley
#3719	LA05	Laboratory	Thu	10:30 - 12:20	REMOTE	Craig Scratchley
#4890	LA06	Laboratory				Craig Scratchley
#3720	LA07	Laboratory	Thu	16:30 - 18:20	REMOTE	Craig Scratchley
#3744	LA08	Laboratory				Craig Scratchley

ENSC 280**Engineering Measurement and Data Analysis (4)**

REQ-(PHYS 121 and ENSC 120) or PHYS 141) and (MATH 251 and MATH 232). MATH 251 and/or MATH 323 may be taken concurrently with ENSC 280. Engineering Science Majors and Honours students are required to take ENSC 280 (no course substitutions will be accepted). Students with credit for STAT 270, MSE 210, or PHYS 231 cannot take this course for further credit. Seats in this course are reserved for students in the Engineering Science program.

#3636	D100	Lecture	Mon/Wed	14:30 - 16:20	REMOTE	Atousa Hajshirmohammadi
#3712	D101	Tutorial				Atousa Hajshirmohammadi
#3713	LA01	Required Lab				Atousa Hajshirmohammadi

ENSC 320**Electric Circuits II (4)**

REQ-(ENSC 220 or MSE 250), and (MATH 232 and MATH 310). Seats in this course are reserved for students in Engineering Science Program.

#3629	D100	Lecture	Mon/Wed	10:30 - 12:20	REMOTE	Rodney Vaughan
#3653	D101	Tutorial				Rodney Vaughan
#3717	LA01	Required Lab				Rodney Vaughan

ENSC 405W**Capstone A: Project Design, Management, and Documentation (3)**

Enrollment in this course is by application: <https://coursys.sfu.ca/forms/ensc-ensc-405w-capstone-a-application/>

#3747	D300	Lecture	Wed	12:30 – 14:20	REMOTE	William Scratchley
#4767	LA01	Laboratory	Mon	12:30 – 14:20		William Scratchley

ENSC 406**Engineering Ethics, Law, and Professional Practice (2)**

REQ-(100 units including one of ENSC 100 or ENSC 106 or CMPT 106 or MSE 102. Students with credit for MSE 402 may not take ENSC 406 for further credit). Online enrollment in this course is restricted to Engineering Science students who have declared their option.

#3655	D100	Lecture	Tue	10:30 - 12:20	REMOTE	Balbir Gill
#3659	D103	Tutorial	Thu	13:30 - 14:20	REMOTE	Balbir Gill
#3660	D104	Tutorial	Thu	13:30 - 14:20	REMOTE	Balbir Gill
#3661	D105	Tutorial	Fri	09:30 - 10:20	REMOTE	Balbir Gill
#3662	D106	Tutorial	Fri	09:30 - 10:20	REMOTE	Balbir Gill
#3663	D107	Tutorial	Fri	10:30 - 11:20	REMOTE	Balbir Gill
#3664	D108	Tutorial	Fri	10:30 - 11:20	REMOTE	Balbir Gill
#3665	D109	Tutorial	Fri	11:30 - 12:20	REMOTE	Balbir Gill

ENSC 413	Deep Learning Systems in Engineering (3)					
	Enrollment in this course is by application: https://coursys.sfu.ca/forms/ensc-413-application-form/ THIS COURSE IS COMBINED WITH ENSC 813 G100					
#4918	D100	Lecture	Tue/Thu	14:30 – 16:20	REMOTE	Faisal Beg
#4919	D101	Tutorial				Faisal Beg
ENSC 425	Electronic System Design (4)					
	REQ-(ENSC 320 and ENSC 325) and (ENSC 380 or MSE 280), and a minimum of 80 units. Online enrollment in this course is restricted to Engineering Science students who have declared their option and students in the minor in Computer and Electronics Design.					
#3656	D100	Lecture	Tue/Thu	12:30 - 14:20	REMOTE	Lakshman One
#3667	D101	Tutorial				Lakshman One
#3668	LA01	Required Lab				Lakshman One
ENSC 429	Digital Signal Processing (4)					
	REQ-(ENSC 327 or ENSC 328) and (ENSC 380 or MSE 280) and a minimum of 80 units. Online enrollment in this course is restricted to Engineering Science students who have declared their option and students in the Minor in Computer and Electronics Design.					
#3637	D100	Lecture	Wed/Fri	14:30 - 16:20	REMOTE	Daniel Lee
#3638	D101	Tutorial				Daniel Lee
#3639	LA01	Required Lab				Daniel Lee
ENSC 440	Capstone B: Engineering Design Project (3)					
	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.					
#3654	D100	Lecture	Wed	08:30 - 10:20	REMOTE	Andrew Rawicz
ENSC 462	Programming for Heterogeneous Computing Systems (4)					
	THIS COURSE IS COMBINED WITH ENSC 894					
#4940	D100	Lecture	Mon/Wed	10:30 - 12:20	REMOTE	Zhenman Fang
#4941	D101	Tutorial				Zhenman Fang
#4942	LA01	Laboratory	Mon	16:30 – 18:50	TBA	Zhenman Fang
ENSC 470	Optical and Laser Engineering Applications (4)					
	REQ- Completion of 80 units including (PHYS 121 or PHYS 126 or PHYS 141) and (MATH 310). Online enrollment in this course is restricted to Engineering Science students who have declared their option.					
	THIS COURSE IS COMBINED WITH ENSC 894 G100					
#3696	E100	Lecture	Wed/Fri	12:30 - 14:20	REMOTE	Pierre Lane
#3714	E101	Tutorial				Pierre Lane
#3699	LA01	Laboratory	Wed	17:30 – 19:20	REMOTE	Pierre Lane
#3700	LA02	Laboratory	Fri	12:30 – 14:20	REMOTE	Pierre Lane
ENSC 482	Introduction to Decision Making in Engineering (4)					
	REQ-(MATH 232) and (MACM 316) and (ENSC 280 or MSE 210 or PHYS 231), and a minimum of 80 units. Online enrollment in this course is restricted to Engineering Science students who have declared their option. Students in programs other than Engineering will not be enrolled for this offering.					
#3731	D100	Lecture	Mon/Wed	10:30 - 12:20	REMOTE	Shahram Payandeh
#3732	D101	Tutorial				Shahram Payandeh
#3733	LA01	Laboratory				Shahram Payandeh

TEKX 101

Introduction to 3D Printing and Laser Scanning Technologies (3)

Students will complete several 3D printed projects within the course. Quantitative/Breadth-Science

#4920

D100

Lecture

Fri

12:30 – 14:20

TBA

Juan Ferrer