

SIMON FRASER UNIVERSITY
SCHOOL OF ENGINEERING SCIENCE
UNDERGRADUATE COURSE SCHEDULE: SPRING SEMESTER 2020

(Contact: Nathan Owen ensccrd@sfu.ca x2-5910)

****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. Students in programs other than Engineering should waitlist and you will be enrolled manually in December if a seat is available.*
- *Tutorials without specified days and times will occur during the specified lecture time*

ENSC 180

Introduction to Engineering Analysis (3)

REQ-(CMPT 128, CMPT 120, or CMPT 130) and (MATH 151 or MATH 150). Corequisite: MATH 152 and MATH 232.

#8458	D100	Lecture	Mon	14:30-16:20	B9201	Herbert Tsang
#8459	LA01	Laboratory	Fri	14:30-16:20	AQ 3181	

ENSC 325

Microelectronics II (4)

REQ-ENSC 225 or ENSC 226 or MSE251

#8467	D100	Lecture	Mon/Wed	08:30-10:20	AQ 3159	Marek Syrzycki
#8473	D101	Tutorial				
#8474	LA01	Required Lab				

ENSC 327

Communication Systems (4)

REQ-(ENSC 380 or MSE 280) and ENSC 280. Students who completed STAT 270 prior to Spring 2015 may use STAT 270 instead of ENSC 280.

#8468	D100	Lecture	Tue/Thu	14:30-16:20	SWH10041	Atousa H.
#8475	D101	Tutorial				
#8476	LA01	Required Lab				

ENSC 350

Digital Systems Design (4)

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

#8463	D100	Lecture	Wed Fri	10:30-12:20 10:30-12:20	WMC 3260 WMC 3260	Lakshman One
#8465	D101	Tutorial				
#8461	LA01	Laboratory	Fri	12:30-14:20	ASB 10810	
#8464	LA02	Laboratory	Fri	14:30-16:20	ASB 10810	
#8537	LA03	Laboratory	Fri	16:30-18:20	ASB 10810	
#5177	LA04	Laboratory	Fri	18:20-20:30	ASB 10810	

ENSC 383

Feedback Control Systems (4)

REQ-ENSC 380 (or MSE 280). Students with credit for MSE 381 may not take ENSC 383 for further credit.

#8469	D100	Lecture	Wed/Fri	14:30-16:20	WMC 3260	Parvaneh Saeedi
#8477	D101	Tutorial				
#8538	LA01	Required Lab				

ENSC 386**Introduction to Mechanical Design (4)**

REQ-PHYS 120, MATH 310, and (ENSC 281 or ENSC 385). Students who have previously taken ENSC 230 cannot take this course for credit.

#8470	D100	Lecture	Tue Thu	08:30-10:20 08:30-10:20	SECB 1011 SECB 1011	Shahram Payandeh
#8478	D101	Tutorial				
#8479	LA01	Required Lab				

ENSC 387**Introduction to Electro**

REQ-ENSC 380 or MSE 280. Students with credit for MSE 310 may not take ENSC 387 for further credit

#8471	D100	Lecture	Mon/Wed	12:30-14:20	AQ 5016	Michael Adachi
#8480	D101	Tutorial				
#8539	LA01	Required Lab				

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/>

#8483	D100	Lecture	Tue	12:30-14:20	AQ 3154	Sessional
#8486	LA01	Laboratory	Thu	14:30-16:20	ASB 8800	

ENSC 410**The Business of Engineering (3)**

REQ- A minimum of 80 units is required to enroll in this course. Students with credit for ENSC 201, ENSC 411, or MSE 300 cannot complete this course for further credit

#8484	D100	Lecture	Wed Fri	12:30-13:20 12:30-13:20	K9500 K9500	Bozena Kaminska
#8540	D101	Tutorial				

ENSC 413**STT: Deep Learning Systems (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*

#8548	D100	Lecture	Tue/Th	14:30-16:20	AQ 5016	Ivan Bajic
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ENSC 416**Electromagnetics II – Call on Design (4)**

REQ-ENSC 316 with a grade of at least C+.

#8515	D100	Lecture	Wed/Fri	08:30-10:20	WMC 2532	Lakshman One
#8517	D101	Tutorial				

ENSC 427**Communication Networks (4)**

REQ-ENSC 327. A minimum of 80 units required. Engineering students may not take CMPT 371 as a substitute for ENSC 427.

#8440	D100	Lecture	Mon Wed	14:30-16:20 14:30-16:20	AQ 5016 SWH 10051	Ljiljana Trajkovic
#8449	D101	Tutorial				
#8462	LA01	Required Lab				

ENSC 428**Digital Communications (4)**

REQ-ENSC 327 and a minimum of 80 units

#8541	D100	Lecture	Tue/Thu	10:30-12:20	AQ 5037	Ivan Bajic
#8516	D101	Tutorial				
#8518	LA01	Required Lab				

ENSC 450**VLSI Systems Design (4)**

REQ- (ENSC 225 or ENSC 226 or MSE 251) and ENSC 350, and a minimum of 80 units.

#8533	E100	Lecture	Tue/Thu	16:30-18:20	AQ 3005	Anita Tino
#8534	E101	Tutorial				
#8535	LA01	Laboratory	Wed	16:30-20:20	ASB 10803	
#8536	LA02	Laboratory	Fri	08:30-12:20	ASB 10803	

ENSC 452**VLSI Systems Design (4)**

REQ- ENSC350, ENSC351, and a minimum of 80 units.

#8556	D100	Lecture	Mon/Wed	16:30-18:20	AQ 5018	Lesley Shannon
#8936	D101	Tutorial				
#8557	LA01	Lab	Fri	14:30-19:20	ASB 8088	

ENSC 474**Digital/Medical Image Processing (4)**

REQ- ((ENSC 180 and ENSC 251) or CMPT 225), and a minimum of 80 units. Students with credit for ENSC 460/895-Digital Image Processing and Analysis cannot take this course for further credit.

THIS COURSE IS COMBINED WITH ENSC 895 G200

#8445	D100	Lecture	Mon/Wed	10:30-12:20	SECB 1013	Faisal Beg
#8450	D101	Tutorial				
#8541	LA01	Required Lab				

ENSC 475**Biomedical Instrumentation (4)**

REQ- (ENSC 225 or MSE 251), ENSC 320, (ENSC 380 or MSE 280) and a minimum of 80 units. ENSC 380/MSE 280 can be taken concurrently. Students with credit for ENSC 372 cannot take this course for further credit.

THIS COURSE IS COMBINED WITH ENSC 895 G400

#8472	D100	Lecture	Tue/Thu	08:30-10:20	AQ 5006	Bonnie Gray
#8481	D101	Tutorial				
#8482	LA01	Required Lab				

ENSC 488**Introduction to Robotics (4)**

REQ-(ENSC 230 or ENSC 386) and (ENSC 383 or MSE 381), and 80 units.

#8485	D100	Lecture	Mon/Wed	08:30-10:20	AQ 5018	Kamal Gupta
#8487	D101	Tutorial				
#8488	LA01	Required Lab				

ENSC 495**Introduction to Microelectronic Fabrication (4)**REQ-ENSC 225 or ENSC 226 or MSE 251 or PHYS 365, and permission of the instructor and a minimum of 80 units. Enrolment in this course is by application only. Please fill in this form: <https://coursys.sfu.ca/forms/ensc-ensc-495851-application-form/>*THIS COURSE IS COMBINED WITH ENSC 851 G100*

#8444	E100	Lecture	Mon	16:30-18:20	AQ 5009	Michael Adachi
#8448	LA01	Laboratory	Wed	16:30-20:20	ASB 8825	
#8451	LA02	Laboratory	Fri	08:30-12:20	ASB 8825	