SIMON FRASER UNIVERSITY

SCHOOL OF ENGINEERING SCIENCE

UNDERGRADUATE COURSE SCHEDULE: SPRING SEMESTER 2023

(Contact: 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 180	Introdu REQ-(CMP ⁻	Iction to Enginee	ring Analysis 130) and (MATH	s (3) (200 Cap) 151 or MATH 150). Coreq	uisite: MATH 152 a	nd MATH 232.		
#2938	D100	Lecture	Tue	12:30 - 14:20	WMC3520	Herbert Tsang		
#2939	LA01	Laboratory	Thu	12:30 - 14:20	B9200	Herbert Tsang		
ENSC 325	Microe REQ-ENSC 2	lectronics II (4) (1 225 or ENSC 226 orMSE25	. 12 Cap)					
#2940	D100	Lecture	Tue/Thu	10:30 - 12:20	AQ3154	Majid Shokoufi		
#2942	D101	Tutorial	One weekly the schedule	Majid Shokoufi				
#2943	LA01	Required Lab	TBA	TBA		Majid Shokoufi		
ENSC 327	Commu REQ-(ENSC	Communication Systems (4) (150 Cap) REQ-(ENSC 380 or MSE 280) and ENSC 280.						
#2998	D200	Lecture	Tue/Thu	14:30 - 16:20	WMC3260	Daniel Lee		
#3001	D201	Tutorial	TBA	ТВА		Daniel Lee		
#3002	LA02	Required Lab	ТВА	TBA		Daniel Lee		
ENSC 350	Digital S REQ-(ENSC	Systems Design (4 215 and either ENSC 250	4) (140 Cap) or CMPT 250) or (E	ENSC 252 and ENSC 254)				
#2996	D100	Lecture	Wed/Fri	8:30 - 10:20	WMC3260	Behnam Ghavami		
#2997	D101	Tutorial	One weekly hour of tutorial will occur within the			Behnam Ghavami		
			scheduled le	cture time				
#3063	LA01	Required Lab	Friday	10:30 - 13:00	ASB10877	Behnam Ghavami		
#3064	LA02	Required Lab	Friday	10:30 - 13:00	ASB10879	Behnam Ghavami		
#3069	LA03	Required Lab	Friday	13:00 - 15:30	ASB10877	Behnam Ghavami		
#3065	LA04	Required Lab	Friday	13:00 - 15:30	ASB10879	Behnam Ghavami		
ENSC 383	Feedba REQ-ENSC 3	ck Control Syster 380 (or MSE 280). Student	ns (4) (120 C s with credit for M	C ap) ISE 381 may not take ENS	C 383 for further cr	edit		
#2999	D100	Lecture	Tue/Thu	12:30 - 14:20	K9500	Kamal Gupta		
#3003	D101	Tutorial	One weekly hour of tutorial will occur within the Kamal Gupta					
#3117	LA02	Required Lab	TBA	TBA		Kamal Gupta		

ENSC 386	Introduce REQ-PHYS 1	Introduction to Mechanical Design (4) (50 Cap) REQ-PHYS 120, MATH 310, and (ENSC 281 or ENSC 385). Students who have previously taken ENSC 230 cannot take this course for credit.						
#3000	D100	Lecture	Tue/Thu	8:30 - 10:20	SWH10051	Shahram Payandeh		
#3004	D101	Tutorial	One weekly hour of tutorial will occur within the Shahram Payandeh scheduled lecture time					
#3005	LA01	Required Lab	TBA	ТВА	ТВА	Shahram Payandeh		
ENSC 387	Introduo	ction to Electro-I	Mechanical S	Sensors and Actu	ators (4) (55	Cap)		
	REQ-ENSC 3	80 or MSE 280. Students	with credit for MS	E 310 may not take ENSC	387 for further cred	lit.		
#2941	D100	Lecture	Wed/Fri	14:30 - 16:20	AQ5037	Ash Parameswaran		
#2944	D101	Tutorial	One weekly h scheduled lee	eekly hour of tutorial will occur within the Ash Parameswaran uled lecture time				
#3070	LA01	Required Lab	ТВА	TBA		Ash Parameswaran		
ENSC 405W	Capston	e A: Project Des	ign, Manage	ment, and Docu	mentation (3)) (100 Cap)		
	Enrollment i	n this course is by applic	ation: <u>https://cours</u>	sys.sfu.ca/forms/ensc-en	sc-405w-capstone-a	-application/		
#2945	D100	Lecture	Tue	12:30 - 14:20	AQ3003	Michael Hegedus		
#2948	LA01	Laboratory	Thu	12:30 - 14:20	AQ3005	Michael Hegedus		
ENSC 410	The Bus REQ- A mini this course f	The Business of Engineering (3) (140 Cap) 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						
#2946	E100	Lecture	Wed/Fri	16:30 - 18:20	К9500	Ryan D'Arcy		
#3071	E101	Tutorial	TBA	TBA	ТВА	Ryan D'Arcy		
ENSC 413	Deep Le Enrollment i 813 G100	Deep Learning Systems in Engineering (3) (28 Cap) Enrollment in this course is by application: https://coursys.sfu.ca/forms/ensc-413-application-form/ THIS COURSE IS COMBINED WITH ENSC 813 G100						
#2960	D100	Lecture	Tue/Thu	14:30 – 16:20	AQ3149	Faisal Beg		
#3074	D101	Tutorial	TBA	ТВА	ТВА	Faisal Beg		
ENSC 416	Enginee REQ-ENSC 3	Engineering Electromagnetics II: Design (4) (34 Cap) REQ-ENSC 316 with a grade of at least C+.						
#2953	D100	Lecture	Tue/Thu	8:30 - 10:20	AQ5008	Chris Hynes		
#3066	LA01	Required Lab	TBA	ТВА	ТВА	Chris Hynes		
ENSC 427	Commu REQ-ENSC 3 COMBINED	Communication Networks (4) (45 Cap) REQ-ENSC 327. A minimum of 80 units required. Engineering students may not take CMPT 371 as a substitute for ENSC 427. THIS COURSE IS COMBINED WITH ENSC 894 G300						
#3127	E100	Lecture	Tue/Thu	18:30 - 20:20	WMC3210	Ljiljana Trajkovic		
#3128	E101	Tutorial	One weekly he scheduled lea	our of tutorial will o ture time	ccur within the	Ljiljana Trajkovic		
#3129	LA01	Required Lab	TBA	TBA		Ljiljana Trajkovic		

ENSC 450	VLSI Sy	VLSI Systems Design (4) (45 Cap)							
	REQ- (ENS	C 225 or ENSC 226 or MSE	251) and ENSC 3	50, and a minimum of 80 (units.				
#2957	E100	Lecture	Tue/Thu	16:30 – 18:20	WMC2532	Aminreza Ahari Kaleibar			
#2958	E101	Tutorial	One weekly scheduled le	kly hour of tutorial will occur within the Aminreza Ahari Kalei d lecture time					
#3067	LA01	Laboratory (23)	Wed	Sessional	ASB9815	Aminreza Ahari Kaleibar			
#3068	LA02	Laboratory (22)	Fri	Sessional	ASB9815	Aminreza Ahari Kaleibar			
ENSC 452	Advan REQ-ENSC	ced Digital System	n Design (4) of 80 units. THIS ((40 Cap)	TH ENSC 894 G100				
#3015	F100	Lecture	Wed/Fri	14.30 - 16.20	WMC2202	Lesley Shannon			
#3016	LA01	Laboratory	Mon	14:30 - 18:20	ASB8800	Lesley Shannon			
ENSC 474	Digital REQ- ((EN and Analy	Digital/Medical Image Processing (4) (45 Cap) 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.							
#2936	D100	Lecture	Wed/Fri	14:30 - 16:20	WMC3210	Parvaneh Saeedi			
#2937	D101	Tutorial	One weekly scheduled le	hour of tutorial will o cture time	occur within the	Parvaneh Saeedi			
#3072	LA01	Required Lab	TBA	ТВА		Parvaneh Saeedi			
ENSC 475	Biome REQ- (ENS Students v	Biomedical Instrumentation (4) (24 Cap) 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							
#2965	D100	Lecture	Tue/Thu	10:30 - 12:20	AQ5018	Bonnie Gray			
#2966	D101	Tutorial	TBA	TBA		Bonnie Gray			
#2967	LA01	Laboratory	TBA	ТВА		Bonnie Gray			
ENSC 483	Moder Prerequisi take ENSC	Modern Control Systems (4) Prerequisite: ENSC 383 or MSE 381, with a minimum grade of C- and a minimum of 80 units. Students with credit for MSE 483 may not take ENSC 483 for further credit.							
#4292	D100	Lecture	Wed/Fri	12:30 - 14:20	AO3153	Shervin Jannesar			
#4291	D101	Laboratory	ТВА	ТВА	ТВА	Shervin Jannesar			
ENSC 488	Introd	uction to Robotic	s (4) (50 Cap))					
	REQ-(ENS	C 230 or ENSC 386) and (EI	NSC 383 or MSE 3	81), and 80 units. THIS CC	OURSE IS COMBINED	WITH ENSC 894 G400			
#2947	D100	Lecture	Wed Fri	8:30 - 10:20 8:30 - 10:20	K9500 AQ3154	Michael Hegedus			
#2949	D101	Tutorial	One weekly scheduled le	hour of tutorial will c cture time	occur within the	Michael Hegedus			
#2950	LA01	Required Lab	TBA	TBA		Michael Hegedus			
ENSC 495	Introd REQ-ENSC by applica 851 G100	uction to Microel 225 or ENSC 226 or MSE 2 tion only. Please fill in this	ectronic Fak 251 or PHYS 365, a form <u>https://cou</u>	Drication (4) (17 C and permission of the inst rsys.sfu.ca/forms/ensc-49	Cap) ructor and a minimu 5-application-form/	m of 80 units. Enrolment in this course is THIS COURSE IS COMBINED WITH ENSC			
#3112	E200	Lecture	Mon	16:30 - 18:20	AQ5037	Michael Adachi			
#3113	LB01	Laboratory	Wed	16:30 - 20:20	ASB8825	Michael Adachi			
#3114	LB02	Laboratory	Fri	8:30 - 12:20	ASB8825	Michael Adachi			

TEKX101

Introduction to 3D Printing & Scanning Technologies (3) (35 Cap) 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.

#2993	D100	Lecture	Fri	12:30 - 14:20	WMC3255	Juan Ferrer
#3395	D101	Tutorial	Fri	14:30 - 16:20	WMC3533	Juan Ferrer