Planned ENSC Course Offerings

Course Code	Course Name	2024 Summer	2024 Fall	2025 Spring	2025 Summer
100W-3	Engineering, Science and Society		✓		
105W-3	Process of Professional Writing		✓		
120-2	Introduction to Electronics Laboratory Instruments Operation and Measurement		✓		
151-4	Introduction to Software Development for Engineers		✓		✓
180-3	Introduction to Engineering Analysis			✓	
204-1	Graphical Communication for Engineering	✓	✓		✓
220-3	Electric Circuits I	✓	✓		✓
225-4	Microelectronics I	✓	✓		✓
251-4	Software Design & Analysis for Engineers	✓	✓		✓
252-4	Fundamentals of Digital Logic & Design	✓	✓		✓
254-4	Introduction to Computer Organization	✓			✓
280-3	Engineering Measurement and Data Analysis	✓			✓
316-3	Engineering Electromagnetics I		✓		
320-4	Electric Circuits II	✓			✓
324-3	Electronic Devices		✓		
325-4	Microelectronics II			✓	
327-4	Communication Systems			✓	
350-4	Digital Systems Design		✓	✓	
351-4	Embedded and Real Time System Software		✓		
370-3	Biomedical Engineering Directions		✓		
380-3	Linear Systems		✓		
383-4	Feedback Control Systems			✓	
385-3	Statics and Strength of Materials		✓		
386-4	Introduction to Mechanical Design			✓	
387-4	Introduction to Electro-Mechanical Sensors and Actuators			✓	
405W-3	Capstone	✓		✓	✓

*Preliminary schedule only; changes or additions may occur closer to the offered semester

Planned ENSC Course Offerings

Course Code	Course Name	2024 Summer	2024 Fall	2025 Spring	2025 Summer
406-2	Engineering Ethics, Law, and Professional Practice	✓			✓
410-3	The Business of Engineering			✓	
413-4	Deep Learning Systems			✓	
416-4	Engineering Electromagnetics II			✓	
425-4	Electronic System Design	✓			✓
426-4	High Frequency Electronics	✓			✓
427-4	Communications Networks			✓	
428-4	Digital Communications	✓			
429-4	Digital Signal Processing	✓			✓
440-3	Capstone B Engineering Science Project	✓	✓		✓
450-4	VLSI Systems Design			✓	
452-4	Advanced Digital System Design			✓	
453-4	Programming for Heterogeneous Computing Systems		✓		
461-4	Special Topics: Synth. Aperture Radar Applications				
462-4	Special Topics: Biomedical Microdevices				
470-4	Optical and Laser Engineering Applications	✓			✓
474-4	Digital/Medical Image Processing			✓	
475-4	Biomedical Instrumentation			✓	
476-4	Biophotonic and Microscopy Techniques	✓			
477-4	Biomedical Image Acquisition		✓		
482-4	Introduction to Decision Making in Engineering	✓			✓
483-4	Modern Control Systems	✓			✓
488-4	Introduction to Robotics			✓	
495-4	Introduction to Microelectronic Fabrication			✓	
TEKX 101	3D Printing Technologies	✓	✓	✓	✓

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Planned ENSC Course Offerings

Updated March 2024

Course Code	Course Name	2024 Summer	2024 Fall	2025 Spring	2025 Summer
801-3	Linear Systems Theory		✓		
802-3	Stochastic Systems		✓		
803-3	Writing for Publication	✓			✓
808-3	Information Theory			✓	
813-3	Deep Learning Systems			✓	
820-3	Engineering Management for Development Projects	✓			✓
833-3	Network Protocols		✓		
835-3	Communication Networks		✓		
851-3	Integrated Circuit Technology			✓	
854-3	Integrated Microsensors and Actuators		✓		
859-3	Biomedical Microdevices and Systems		✓		
861-3	Advanced Multimedia Compression				
887-3	Computational Robotics			✓	
890-3	Advanced Robotics: Mechanics and Control	✓			✓
894-3	Special Topics	✓	✓		✓
895-3	Special Topics		✓		

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