

## Tentative 2020–2021 Electives offered by EECS

Fall 2020			BME	CE	EE	SE	Prerequisites	Primary Contact
CE4100	Embedded System Fabrication	223	EL	EL	EL		(CE2812 or EE2920 or BE3205) and (EE2060 or EE2725)	Dr. Rothe
CE4951	Networking I	223		Req	EL		(CE2812 or EE2931) and MA262	Dr. Rothe
CS3400	Machine Learning	324				EL	CS2852 and MA383	Dr. Nowling
CS3860	Introduction to Database Systems	324		EL		Req	CS2852 and MA2310	Dr. Magana
CS4920	Information Security	303		BE/EE/SE only until week 11			CS2711 or CS2801 or EE1910 or EE2905	Dr. Rothe
EE3102	Analog Electronics I	324	EL	EL	Req		EE2070 or EE3002B or EE2725	Dr. Holland
EE4022	Principles of Communications	324		EL	Req		MA262 and EE3032	Dr. Chandler
EE4280	Antenna Theory and Wireless Applications	303			EL		EE3214	Dr. Holland
EE447	Power System Analysis I	303			EL		EE3401	Dr. Weber
EE4981	Music Signal Processing	223	EL	EL	EL		EE3221	Dr. Wierer
SE4930	Developing Secure Software	223		EL		EL	SR CEs and SEs; juniors: consent	Dr. Schilling
Winter 2020–2021			BME	CE	EE	SE	Prerequisites	Primary Contact
BE4990	Laser Medical Applications and Interactions	303		EL	EL		(BE4705 or EE3112) and (EE2905 or EE2920)	Dr. Sayed
CE498	Memory and IO Systems Architecture	303		EL			CE1921 or CS2711	Dr. Meier
CS3300	Introduction to Data Science	324				EL	CS3400 and MA262	Dr. Nowling
SE3830	Human Computer Interaction	223				EL	MA262 and CS2852 and SE2030	Dr. Panciera
CS3040	Programming Languages and Translators	303				EL	CS2040 or CS3210	Dr. Hasker
EE3112	Analog Electronics II	324		EL	Req		EE3102 or EE3002B	Dr. Holland
EE3204	Electric and Magnetic Fields	404	EL	EL	Req		MA232 and PH2020	Dr. Strangeway
EE426	Advanced Electromagnetics	303			EL		EE3214	Dr. Strangeway
EE4601	System Simulation	303		EL	EL		(EE2070 EE3002B EE2715) & (EE1910 CS1011 BE2200) & MA383coreq	Dr. Carl
EE4930	Advanced Embedded Systems	223		EL	EL		EE2931 or EE3910B or CE2820	Dr. Widder
EE4451	Bulk System Stability	303			EL		EE3401	Dr. Weber
Spring 2021			BME	CE	EE	SE	Prerequisites	Primary Contact
CS3450	Deep Learning	324				EL	CS3400	Dr. Yoder
CS4920	Information Security	303		CE only until week 11			CS2711 or CS2801 or EE1910	Dr. Rothe
EE3102	Analog Electronics I	324		EL	Req		EE2070	Dr. Holland
EE423	Applications of DSP	223		EL	EL		EE3221	Dr. Prust
EE444	Power Electronics	303	EL		EL		EE3102 or EE3111	Dr. Kelnhofer
EE4240	Software Defined Radio Systems	223		EL	EL		EE4022	Dr. Prust
EE4720	Control Systems Applications	223	EL		EL		BE4805 or EE3720	Dr. Bonniwell
EE484	Neural Networks	303	EL	EL	EL	EL	(EE2510 or CS1011 or BE2200) and (MA383 or MA343)	Dr. Ross
EE4981	Modern Electronic Systems	303		EL	EL		(EE3102 or CE3101) & (EE3921 or EE3900B or CE1921)	Dr. Johnson
SE4910	Mobile Application Development	223		EL		EL	CS2852	Dr. Riley
SE4940	Network Security Tools and Practices	223				EL	(CS2911 or CE4960 or CE4961) & (CS3840 or CS3841)	Dr. Schilling

There may be alternative prerequisites for nonmajor students: please see the primary contact or consult with your advisor for details. If you have questions about using classes as electives, consult your program director. Note that electives may be cancelled due to low enrollments or other unforeseen circumstances.