Tentative 2019–2020 Electives offered by EECS

Fall 2019	Title		BME	CE	CS	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
CS3860	Introduction to Database Systems	324		EL	Req		Req	CS2852 and MA2310	Dr. Urbain
CS4920	Information Security	303		BE/CS/EE/SE only until week 11				CS2711 or CS2801 or EE1910 or EE2905	Prof. Vieau
CS4981	Introduction to Data Science	223		EL	NA		EL	CS2852 and MA262	Dr. Nowling
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
EE4480	Electric Power System Quality	223				EL		EE3401	Prof. Hoadley
EE4980	Power System Stability	303				EL		EE3401	Dr. Weber
Winter 2019–2020									
CS4850	Machine Learning	223		EL	NA		EL	CS2852 and MA262	Drs. Nowling
CE4930	Computer Architecture II	303		EL				CE1921	Dr. Meier
GE4200	Advanced Matlab Programming	303	EL	EL	EL	EL	EL	BE2200 or CS1021 or EE2510	Dr. Tritt
SE3830	Human Computer Interaction	223		EL	EL		EL	MA262 and CS2852	Dr. Panciera
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 Electromagnetic Fields	303				EL		EE3214	Dr. Strangeway
EE4601	System Simulation	303		EL		EL		(EE2070|EE3002B) & (EE1910| SE1011|proc prog) & MA383coreq	Dr. Carl
EE4930	Advanced Embedded Systems	223		EL		EL		EE2931 or EE3910B or CE2820	Dr. Widder
EE4981A	Specialty Electric Machines	223				EL		EE3401	Dr. Weber
EE4981B	Power Converters for Grid Power/Renewable	223				EL		EE3401 and EE3102	Dr. Ahmed
Spring 2020									
CE4800	Advanced Digital Design	223		EL		EL		CE1911 & (CE2820 | EE2931 | EE3910B)	Dr. Livingston
CS498	Decision Process Engineering	303		EL	EL		EL	MA137 and (CS2852 or CE1911) and prior programming	Dr. Thomas
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
EE4112	Advanced Analog Electronics	223				EL		EE3101 and EE3111	Prof. Ramirez
EE423	Applications of DSP	303		EL		EL		EE3221	Dr. Prust
EE444	Power Electronics	303	EL			EL		EE3102 or EE3111	Dr. Kelnhofer
EE4720	Control Systems Applications	223	EL	EL		EL		BE4810 or EE3720	Dr. Wierer
EE4240	Software Defined Radio Systems	223		EL		EL		EE4022	Dr. Prust
EE4981	Modern Electronic Systems	223		EL		EL		(EE3102|CE3101) & (EE3921|EE3900B|CE1921)	Dr. Johnson
SE2800	Software Engineering Process I	223		EL	EL		Req	CS2852 and SE2030	Dr. Riley
SE4940	Network Security Tools and Practices	223		EL	EL		EL	(CS2911 | CE4960 | CE4961) & (CS3840 | 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.

May 8, 2019: smw