


# ECE Course Offerings, CMPE 2024-25

Fall 2024				Winter 2025			
ELEC 324	Discrete-Time Signals & Systems	F	P.Eng	ELEC 224	Cont.-Time Signals & Systems	W	P.Eng
ELEC 345	Sensor Fabrication Technologies	F		ELEC 372	Numerical Methods and Optimization	W	
ELEC 353	Electronics II	F	P.Eng	ELEC 408	Biomedical Signal & Image Processing	W	
ELEC 376	Software Dev. Methodology (Opt. Core)	F		ELEC 421	Digital Signal Processing: Filters and Syst.	W	P.Eng
ELEC 409	Bioinformatic Analytics	F	P.Eng	ELEC 425*	Machine Learning & Deep Learning	W	EIT
ELEC 431	Power Electronics	F	P.Eng	ELEC 464	Wireless Communications	W	P.Eng
ELEC 443	Linear Control Systems	F	P.Eng	ELEC 470	Computer Syst. Architecture	W	P.Eng
ELEC 446	Mobile Robotics <sup>New!</sup>	F	P.Eng	ELEC 472	Artificial Intelligence	W	P.Eng
ELEC 471	Safety Critical Software Engineering <sup>New!</sup>	F		ELEC 477	Distributed Systems	W	Eng. License
ELEC 473	Cryptography and Network Security	F	EIT	MREN 348	Introduction to Robotics	W	P.Eng
ELEC 475	Computer Vision with Deep Learning	F	P.Eng				
SOFT 437	Performance Analysis	F	P.Eng				
					Courses that require CE core prerequisites only		

# The School of Computing Course Offerings, CMPE 2024-25

Fall 2024			Winter 2025		
CMPE 204	Logic for Computing Science	F	CMPE 204	Logic for Computing Science	W
CMPE 251	Data Analytics	F	CMPE 223	Software Specifications ( <i>Opt. Core</i> )	W
CMPE 327	Software Quality Assurance	F	CMPE 322	Software Architecture	W
CMPE 330	Computer-Integrated Surgery	F	CMPE 325	Human-Computer Interaction	W
CMPE 422	Formal Methods in Soft. Eng.	F	CMPE 332	Database Management Systems	W
CMPE 452*	Neural and Genetic Computing	F	CMPE 351	Advanced Data Analytics	W
CMPE 457	Image Processing & Comp. Vision	F	CMPE 454	Comp. Graphics	W
			CMPE 458	Program. Language Processors	W
			SOFT 423	S/W Requirements	W

*\*ELEC 425 and CMPE 452 are exclusions; only one course from the pair counts toward the degree requirements.*

*ELEC 376 and CMPE 223 are Optional Core; if both are completed – CMPE 223 counts toward a List B elective.*