Offered
Not Offered

7/14/2023

Course	Course Name	Fall	Spring	Fall	Spring	Fall	Spring	Fall
Number		2021	2022	2022	2023	2023	2024	2024
EC311	Introduction to Logic Design							
EC327	Introduction to Software Engineering							
EC330	Applied Algorithms for Engineers							
EC400	Topics in Software Design							
EC400	Acoustics Mt Ee							
EC400	Engineering Light							
EC401	Signals and Systems							
EC402	Control Systems							
EC410	Introduction to Electronics							
EC412	Analog Electronics							
EC413	Computer Organization							
EC414	Introduction to Machine Learning							
EC415	Software Radios							
EC417	Electric Energy Systems: Adapting to Renewable Resources							
EC418	Introduction to Reinforcement Learning							
EC440	Introduction to Operating Systems							
EC441	Introduction to Computer Networking							
EC444	Smart and Connected Systems							
EC447	Software Design							
EC455	Electromagnetic Systems I							
EC456	Electromagnetic Systems II							

EC463	Senior Design Project I				
EC464	Senior Design Project II				
EC471	Physics of Semiconductor Devices				
EC500	Introduction to Online Learning				
EC500	Foundations of Probabilistic Machine Learning				
EC500	Medical Imaging with AI				
EC500	Hardware Security				
EC500	Plasma Engineering and Technologies				
EC500	Principles of Software At Scale				
EC501	Dynamic System Theory				
EC503	Introduction to Learning from Data was EC500)				
EC504	Advanced Data Structures				
EC505	Stochastic Processes				
EC512	Enterprise Client-Server Software Systems Design				
EC513	Computer Architecture				
EC516	Digital Signal Processing				
EC517	Introduction to Information Theory				
EC518	Robot Learning				
EC519	Speech Processing by Humans and Machines				
EC520	Digital Image Processing and Communication				
EC521	Cybersecurity				
EC522	Computational Optical Imaging (was EC500/700)				
EC523	Deep Learning (was EC500)				
EC524	Optimization Theory and Methods				
EC525	Optimization for Machine Learning (was EC500)				
EC526	Parallel Programming for High Performance Computing				
EC527	High Performance Programming with Multicore and GPUs				

EC528	Cloud Computing (was EC500)				
EC530	Software Engineering Principles (was EC500)				
EC533	Advanced Discrete Mathematics				
EC534	Discrete Stochastic Models				
EC535	Introduction to Embedded Systems				
EC541	Computer Communication Networks				
EC543	Sustainable Power Systems: Planning, Operation and Markets				
EC544	Networking the Physical World				
EC545	Cyber-Physical Systems				
EC551	Advanced Digital Design with Verilog and FPGA				
EC552	Computational Synthetic Biology for Engineers				
EC555	Introduction to Biomedical Optics				
EC556	Optical Spectroscopic Imaging				
EC560	Introduction to Photonics				
EC562	Engineering Optics (was EC500 Fourier Optics)				
EC565	Electromagnetic Fundamentals				
EC568	Optical Fibers and WaveGuides				
EC570	Lasers and Applications				
EC571	Digital VLSI Circuit Design				
EC572	Comp Methods MS				
EC573	Solar Energy Systems				
EC574	Phy Smcndct Mat				
EC575	Semiconductor Devices				
EC577	Electronic Optical and Magnetic Properties of Materials				
EC578	Fabrication Technology for Integrated Circuits				
EC579	Nano/microelectronic Device Technology				

EC580	Analog VLSI Circuit Design				
EC582	RF/Analog IC Design Fundamentals				
EC583	Power Electronics for Energy systems				
EC585	Quantum Engineering & Technology (QET)				
EC591	Photonics Lab I				
EC601	Product Design in Electrical and Computer Engineering				
EC602	Design by Software				
EC605	Computer Engineering Fundamentals				
EC674	Optimization Theory II				
EC700	Advanced Topics in Computer Architecture				
EC700	Silicon Photonics				
EC700	IoT Security				
EC700	Vulnerability, Malware, and Defensive Systems				
EC700	Malware, Online Abuse and Cybercrime				
EC700	Foundations of Signal Representation and Estimation				
EC700	Introduction to Reinforcement Learning				
EC700	Advanced Computer Networking				
EC700	Cyber-Physical Systems and Autonomous Vehicles				
EC700	High Dimensional Probability				
EC701	Optimal and Robust Control				
EC702	Recursive Estimation and Optimal Filtering				
EC707	Radar Remote Sensing				
EC710	Dynamic Programming and Stochastic Control				
EC713	Advanced Computer Systems & Architecture				
EC716	Advanced Digital Signal Processing				
EC717	Image Reconstruction and Restoration				
EC719	Statistical Pattern Recognition				
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EC720	Digital Video Processing				
EC724	Advanced Optimization Theory and Methods (was EC700)				
EC732	Combinatorial Optimization and Graph Algorithms				
EC733	Discrete Event and Hybrid Systems				
EC734	Hybrid Systems				
EC754	Computer-Aided Verification and Synthesis				
EC762	Quantum Optics				
EC763	Nonlinear and Ultrafast Optics				
EC770	Guided-wave Optoelectronics				
EC774	Semiconductor Quantum Structures and Photonic Devices				
EC777	Nanostructure Optics				
EK103	Computational Linear Algebra				
EK121	Introduction to Programming for Engineers				
EK131/2	The Electric Guitar as a Gateway to Electroacoustics				
EK131/2	Photonics E3– Engineering with light				
EK210	Introduction to Engineering Design				
EK307	Electric Circuits				
EK381	Probability, Statistics, and Data Science for Engineers				
EK481	Introduction to Nanotechnology				
EK500	Probability with Statistical Applications				
EK501	Mathematical Methods I: Linear Algebra and Complex Analysis				