

Course	Course Title	Fall 2019	Winter 2020	Spring 2020
ELEC_ENG 100	Electrons, Photons, and Bits: Adventures in Electrical and Computer Engineering			MTuWF 4-4:50 Taflove
COMP_SCI 111	Fundamentals of Computer Programming I	1-1:50 MWF Horswill	11-11:50 MWF Sood	1-1:50 MWF Sood
ELEC_ENG 202	Intro to Electrical Engineering	MTuWF 2-2:50 Taflove / Besler / Mohseni	MTuWF 10-10:50 Taflove / Mikhelson / Grayson	MTuWF 10-10:50 Taflove / Mikhelson / Mohseni
COMP_ENG 203	Intro to Computer Engineering	MTuWF 11-11:50 Joseph	MTuWF 11-11:50 C.H. Wu	MTuWF 11-11:50 Zhou
COMP_ENG 205	Fundamentals of Computer System Software		MTuWF 2-2:50 Joseph	
GEN_ENG 205	Engineering Analysis 1	MTuWThF Freeman		
GEN_ENG 205-1	Engineering Analysis 1	MTuWThF Honig		
GEN_ENG 205-1	Engineering Analysis 1	MTuWThF Kumar		
GEN_ENG 205-1	Engineering Analysis 1	MTuWThF Besler		
GEN_ENG 206-1	Honors Engineering Analysis 1	MTuWThF Berry/Freeman		
COMP_SCI 211	Fundamentals of Computer Programming II	12:30-1:50 TuTh Sood	2-3:20 TuTh Tov	12:30-1:50 TuTh Tov
COMP_SCI 213	Intro to Computer Systems	2-3:20 TuTh Dinda	12:30-1:50 TuTh St-Amour	2-3:20 TuTh Hardavellas
COMP_SCI 213	Intro to Computer Systems	3:30-4:50 TuTh St-Amour		
COMP_SCI 214	Data Structures and Data Management	9:30-10:50 TuTh Tov	4-5:20 TuTh St-Amour	3:30-4:50 TuTh St-Amour

ELEC_ENG 221	Fundamentals of Circuits		MTuWF 9-9:50 Plonus	MTuWF 2-2:50 Plonus
ELEC_ENG 222	Fundamentals of Signals and Systems	MTuWF 2-2:50 Pappas	MTuWF 2-2:50 TBA	
ELEC_ENG 223	Fundamentals of Solid State Engineering	MTuWF 9-9:50 Razeghi		MTuWF 9-9:50 Aydin
ELEC_ENG 224	Fundamentals of Electromagnetics and Photonics	MTuWF 11-11:50 Taflove		MTuWF 1-1:50 Taflove
ELEC_ENG 225	Fundamentals of Electronics	MTuWF 3-3:50 C.H. Wu	MTuWF 1-1:50 C.H. Wu	
COMP_SCI 340	Introduction to Computer Networking	11-12:20 MW Bustamante	12:30-1:50 TuTh Tarzia	
ELEC_ENG 250	Physical Electronics and Devices		MTuWF 10-10:50 Khalili	
ELEC_ENG 302	Probabilistic Systems	MTuWF 9-9:50 Guo		MTuWF 10-10:50 Wei
COMP_ENG 303	Advanced Digital Design	TuTh 3:30-4:50 S. Memik		TuTh 3:30-4:50 Gu
ELEC_ENG 307	Communications Systems		MTuWF 10-10:50 Honig	
ELEC_ENG 308	Applied Electromagnetics and Photonics			
COMP_SCI 322	Compiler Construction		5 -6:20 TuTh Campanoni	
COMP_SCI 323	Code Analysis and Transformation			5-6:20 TuTh Campanoni
BME 325	Introduction to Medical Imaging			
ELEC_ENG 326	Electronic System Design I		TuTh 3:30-4:50 Mikhelson	

ELEC_ENG 327	Electronic System Design II			TuTh 12:30-1:50 Mikhelson
COMP_ENG 329	The Art of Multicore Concurrent Programming			MW 3:30-4:50 Zhou
ELEC_ENG 332	Introduction to Computer Vision	TuTh 11-12:20 Y. Wu		
ELEC_ENG 333	Introduction to Communication Networks			MWF 11-11:50 Guo
COMP_SCI 343	Operating Systems		11-12:20 TuTh Dinda	
COMP_ENG 346	Microprocessor System Design			MWF 10-10:50 Hester
COMP_ENG 347-1	Microprocessor Systems Project I		MWF 9-9:50 Henschen	
COMP_ENG 347-2	Microprocessor Systems Project II			M W F. TBD Henschen
COMP_ENG 355	ASIC and FPGA Design	TuTh 3:30-4:50 Zaretsky		
COMP_ENG 356	Introduction to Formal Verification			
COMP_ENG 357	Introduction to VLSI CAD			
COMP_ENG 358	Intro to Parallel Computing			TuTh 2-3:20 G. Memik
ELEC_ENG 359	Digital Signal Processing	TuTh 3:30-4:50 Pappas		
ELEC_ENG 360	Introduction to Feedback Systems		MWF 10-10:50 Freeman	
COMP_ENG 361	Computer Architecture I	TuTh 12:30-1:50 G. Memik		
COMP_ENG 362	Computer Architecture Project		TuTh 11-12:20 TBA	
ELEC_ENG 363	Digital Filtering		MWF 1:00-1:50 Butz	

COMP_ENG 364, 464	Cyber-Physical Systems Design and Application			F 1-4 Zhu
COMP_ENG 365, 465	Internet-of-Things Sensors, Systems, and Applications		TuTh 11-12:20 Hester	
COMP_ENG 366, 466	Embedded Systems		MWF 11-11:50 Zhu	
COMP_ENG 368, 468	Programming Massively Parallel Processors with CUDA		TuTh 2:00-3:20 Hardavellas	
ELEC_ENG 374	Intro to Digital Control			TuTh 2:00-3:20 Freeman
ELEC_ENG 375, 475	Machine Learning: Foundations, Applications, and Algorithms	M 5-7:50 Katsaggelos		MWF 10-10:50 Katsaggelos
ELEC_ENG 378	Digital Communications			
ELEC_ENG 379	Lasers and Coherent Optics	TuTh 12:30-1:50 Ho		
ELEC_ENG 380	Wireless Communications			
ELEC_ENG 381	Electronic Materials: Properties and Applications	MWF 1-1:50 Khalili		
ELEC_ENG 382	Photonic Information Processing			TuTh 12:30-1:50 Ho
ELEC_ENG 383	Fiber-Optic Communications		MW 2-3:20 Yuen	
ELEC_ENG 384	Solid State Electronic Devices	TuTh 2-3:20 Grayson		
ELEC_ENG 385	Optoelectronics	MWF 2-2:50 Aydin		
ELEC_ENG 386	Computational Electromagnetics and Photonics			
ELEC_ENG 388	Nanotechnology		TuTh 9:30-10:50 Razeghi	
ELEC_ENG 389	Superconductivity and its Applications			MWF 11-11:50 Khalili

ELEC_ENG 390	Intro to Robotics			MWF 1-1:50 C.H. Wu
COMP_ENG 391	CMOS VLSI Circuits Design		TuTh 12:30-1:50 Gu	
COMP_ENG 392	VLSI Systems Design Projects			MW 3:30-4:50 Zaretsky
COMP_ENG 393, 493	Advanced Low Power Digital and Mixed-signal Integrated Circuit Design	TuTh 2:00-3:20 Gu		
ELEC_ENG 395	Probabilistic Systems			
ELEC_ENG 395	Quantum Computation			MW 2-3:20 Yuen
ELEC_ENG/COMP_ENG 395	Blockchain and Cryptocurrency	MW 3:30-4:50 Zhou		
ELEC_ENG 395, 495	Biometrics	Tu 6-9 X. Chen		
ELEC_ENG 395, 495	Cardiovascular Instrumentation		MWF 1-1:50 Sahakian	
ELEC_ENG 395, 495	Introduction to Smart Grid Systems			
ELEC_ENG 395, 495	A Hands-on Course in Communication Systems			
ELEC_ENG 395, 495	Mixed-Signal Circuits Systems			
ELEC_ENG 395, 495	Advanced Quantum Transport & Magneto Transport			
ELEC_ENG 395, 495	Geospatial Vision and Visualization			M 6-9 X. Chen
COMP_ENG 395, 495	Advanced Digital System Design with FPGAS		MW 3:30-4:50 Zaretsky	
ELEC_ENG/COMP_ENG 395, 495	Technology Infrastructure: Concepts, Requirements, Design and Operation			
ELEC_ENG 395, 495	Optimization Techniques for Machine Learning and Deep Learning			
ELEC_ENG 395, 495	Deep Reinforcement Learning from Scratch			
ELEC_ENG 395, 495	Bioelectric Systems Modeling & Analysis			

ELEC_ENG 395, 495	Personal Health Systems			
COMP_ENG 395, 495	Modeling and Synthesis of Cyber-Physical Systems			
ELEC_ENG 395, 495	Platforms and Networked Markets			
ELEC_ENG 395, 495	Optical and Secure Communications			MW 3:30-4:50 Yuen
ELEC_ENG 395, 495	Metamaterials and Nanophotonic Devices			
COMP_ENG 395, 495	Connected and Autonomous Vehicles: Challenges and Design		TuTh 2:00-3:20 Zhu	
ELEC_ENG 395, 495	Introduction to Nanophotonics and Plasmonics Science and Technology			TuTh 9:30-11 Ho
ELEC_ENG 395, 495	Computational Photography Seminar		TuTh 3:30-4:50 Cossairt, Willomitzer	
COMP_SCI 396	Scalable Software Architectures	3:30-4:50 MW Tarzia		12:30 -1:50 MW Tarzia
COMP_SCI 397, 497	Wireless and Mobile Health (mHealth)		5-6:20 TuTh Alshurafa	
COMP_SCI 397, 497	Advanced Topics in Compilers	9:30-10:50 TuTh Campanoni		
ELEC_ENG 398	Electrical Engineering Design			TuTh 1-2:15 Butz
ELEC_ENG 401	Fundamentals of Electronic Devices			
ELEC_ENG 402	Advanced Electronic Devices		TuTh 11-12:20 Mohseni	
ELEC_ENG 403	Quantum Semiconductors			TuTh 11:00am-12:20pm Grayson
ELEC_ENG 404	Quantum Electronics	TuTh 3:30-4:50 Shahriar		

ELEC_ENG 405	Advanced Photonics		TuTh 2:00-3:20 Aydin	
ELEC_ENG 406	Nonlinear Optics			MF 4-5:20 Kumar
ELEC_ENG 407	Quantum Optics			
ELEC_ENG 409	Semiconductor Lasers			TuTh 9:30-10:50 Mohseni
ELEC_ENG 410	System Theory	MWF 11-11:50 Butz		
ELEC_ENG 411	Fundamentals and Applications of Special Relativity		TuTh 3:30-4:50 Shahriar	
ELEC_ENG 414	Advanced Topics in Quantum Electronics			TuTh 3:30-4:50 Shahriar
ELEC_ENG 418	Advanced Digital Signal Processing			MWF 1-1:50 Butz
ELEC_ENG 420	Digital Image Processing			
ELEC_ENG 421	Multimedia Signal Processing			
ELEC_ENG 422	Random Processes in Communications and Control I		MW 3:30-5:20 Berry	
ELEC_ENG 423	Random Processes in Communications and Control II			
ELEC_ENG 424	Distributed Optimization		TuTh 9:30-10:50 Wei	
ELEC_ENG 425	Introduction to Nanoscale Lasers, Quantum Noise, Photons, & Measurement			
ELEC_ENG 426	Signal Detection and Estimation	TuTh 2:00-3:20 Lee		
ELEC_ENG 427	Optical Communications			
ELEC_ENG 428	Information Theory			
ELEC_ENG 429	Selected Topics in Quantum Information Science and Technology			

ELEC_ENG 431	Human Perception and Electronic Media			Tu-Th 9:30-11 Pappas
ELEC_ENG 432	Advanced Computer Vision		TuTh 11-12:20 Y. Wu	
ELEC_ENG 433	Statistical Pattern Recognition		TuTh 2:00-3:20 Y. Wu	
ELEC_ENG 435	Deep Learning Foundations from Scratch		W 5-8 Katsaggelos	
COMP_SCI 446	Kernel and Other Low-level Software Development			2-3:20 MW Dinda
COMP_ENG 452	Advanced Computer Architecture I		MW 12:30-1:50 G. Memik	
COMP_ENG 453	Parallel Architectures			MW 3:30-4:50 Joseph
ELEC_ENG 454	Advanced Communication Networks			
COMP_ENG 456	Modern Topics in Computer Architecture			TuTh 11-12:20 Hardavellas
COMP_ENG 459	VLSI Algorithmics		MW 2-3:20 S. Memik	
ELEC_ENG 463	Adaptive Filtering and Estimation			
ELEC_ENG 478	Advanced Digital Communications			
ELEC_ENG/COMP_ENG 495	Machine Learning and Artificial Intelligence for Robotics			
COMP_ENG 495	Introduction to Database Systems and Data Warehousing	MW/12:30-1:50 Scheuermann		
ELEC_ENG 495	Game Theory and Networked Systems			
ELEC_ENG 495	Introduction to Nonlinear Control Theory			
ELEC_ENG 495	Algorithmic Aspects of Inference and Estimation of Network Processes			Th 2:00-4:50 Berry & Vijayaraghavan
ELEC_ENG/COMP_ENG 495	Robot Design Studio			

<u>ELEC_ENG 495</u>	<u>Statistical Optics</u>			
<u>COMP_ENG 510</u>	<u>Social Media Mining</u>			F 2-4:50 Choudhary