

ECE Core Course List		Spring 2019		
Course No.	Course Title	Co-Meet or Combined with	Credit Hrs	Instructor
ECE 4070	Physics of Semiconductors & Nanostructures	Co-Meet MSE 6050	4	Jena, D (dj326)
ECE 4150	GPS: Theory & Design	MAE 4150	4	Hysell, D (dlh37)
ECE 4250	Digital Signal & Image Processing		4	Sabuncu, M (ms3375)
ECE 4360	Nanofab & Characterization of Electronics	MSE 5410	3	Xing, G (hgx2)
ECE 4370	Photonics: Devices & Applications		4	Poitras, C (cbp8)
ECE 4450	Computer Networks & Telcomm		4	Wicker, S (sbw11)
ECE 4740	Digital VLSI Design		4	Studer, C (cs639)
ECE 4840	Intro to Controlled Fusion: Principles & Technology	AEP/NSE, MAE 4590	3	Hammer, D (dah5)
ECE 4870	Introduction to Radar Remote Sensing	Combined w/EAS 4870	3	Hysell, D (dlh37)
ECE 4910	Principles of Neurophysiology	BIONB/BME 4910	4	Johnson, B (brj1)
ECE 4950	Machine Learning & Pattern Recognition		4	Acharya, J (ja679)
ECE 4960	Scientific & Numerical Computation		4	Kan, E (eck5)
ECE 5040	Intro to Neural Engineering	BME 5040	3	Shoaran, M (ms3464)
ECE 5130	Systems Analysis Behavior and Optimization	Combined w/CEE 5252, MAE 5920, ORIE 5142, SYSEN 5200	3	Goldberg, D (dag369)
ECE 5210	Theory of Linear Systems		3	Bojanczyk, A (awb8)
ECE 5350	Semiconductor Physics		4	Tiwari, S (st222)
ECE 5540	Advanced Analog VLSI Circuit Design		4	Molnar, A (am699)
ECE 5620	Foundations of Data Compression		4	Wagner, A (abw35)
ECE 5720	Introduction to Parallel Computing		3	Bojanczyk, A (awb8)
ECE 5725	Principles of Embedded Operating Systems		4	Skovia, J (jfs9)
ECE 5745	Complex Digital ASIC Design		4	Batten, C (cb535)
ECE 5760	Advanced Microcontroller Design		4	Land, B (brl4)
ECE 5970	Molding Light Flow: Advanced Electrodynamics of Complex Media		4	Monticone, F (fm428)
ECE 5990	Datacenter Computing		4	Delimitrou, C (cd434)
ECE 6970	Bio-Inspired Coordination of Multi-Agent Systems		4	Petersen, K (khp37)

- ECE Course Info - <https://classes.cornell.edu/browse/roster/SP19/subject/ECE>
- ECE MEng Degree Requirements - <https://www.ece.cornell.edu/ece/programs/graduate-programs/meng-program/meng-degree-requirements>
- ECE Fall 2019 Courses will be made available for viewing in mid-semester Spring 2019

**\*\*\*Outside ECE Core Course for Spring 2019 on Page 2\*\*\***

Outside ECE Approved Core Courses		Spring 2019		
Course No.	Course Title	Co-Meet or Combined with	Credit Hrs	Instructor
AEP 4400	Quantum and Nonlinear Optics		4	Moses, J (jam262)
BME 6260	Optical Microscopy and Fluorescence Methods for Research		3	Zipfel, W (wrz2)
CEE 5900	Project Management		4	Newman, R (rtn24) Rother, K (ksr77) Treat, B (bnt5)
CS 4410	Operating Systems		3	Alvisi, L (la13)
CS 4820	Introduction to Analysis of Algorithms		4	Kleinberg, R (rdk2)
CS 5412	Cloud Computing		4	Birman, K (kpb3)
INFO 4320	Introduction to Rapid Prototyping and Physical Computing		4	Zhang, C (cz448)
MAE 5180	Autonomous Mobile Robots		4	Kress-Gazit, H (hk478)
MAE 5790	Nonlinear Dynamics and Chaos	MATH 4210	4	Borum, A (adb328)
ORIE 5510	Introduction to Engineering Stochastic Processes I	Combined w/ ORIE 3510, STSCI 3510	4	Samorodnitsky, G (gs18)

- Outside ECE Course Info - <https://classes.cornell.edu/browse/roster/SP19>
- Outside ECE Course Info will be made available for viewing in mid-semester Spring 2019

If you intend to enroll in any Computer Science courses for Spring 2019, be certain to visit the following link before you do - <https://www.cs.cornell.edu/courseinfo/enrollment>.