

ECE Core Course List		Fall 2018		
Course No.	Course Title	Combined with	Credit Hrs	Instructor
ECE 4060	Engineering Quantum Mechanics	MSE 5715	3	Benedek, N
ECE 4300	Lasers and Optoelectronics		4	Pollock, C
ECE 4380	Electromagnetic and Optical Metamaterials		4	Monticone
ECE 4510	Electric Power Systems I		4	Chiang, H
ECE 4530	Analog Integrated Circuit Design		4	Molnar, A
ECE 4570	Electronic Device Fundamentals		4	Tiwari, S
ECE 4670	Digital Communication System Design		4	Studer, C
ECE 4750	Computer Architecture	CS 4420	4	Delimitrou, C
ECE 4760	Digital Systems Design Using Microcontrollers		4	Land, B
ECE 4770	Foundation of Robotics	CS 4750, CS 5750	4	Knepper, R
ECE 4800	Optimal System Analysis and Design		4	Tang, A
ECE 5120	Model Based Systems Engineering	CEE 5240, MAE 5910, ORIE 5140, SYSEN 5100, SYSEN 6150	4	Schneider, D
ECE 5180	Principles of Magnetic Resonance Imaging	BME 6180, VETCS 6180	3	Wang, Y
ECE 5470	Computer Vision		4	Reeves, A
ECE 5555	Stochastic Systems: Estimation and Control		4	Bitar, E
ECE 5580	Compound Semiconductor Devices	MSE 5461	3	Xing, H
ECE 5610	Error Control Codes		4	Wicker, S
ECE 5725	Design with Embedded Operating Systems		4	Skovira, J
ECE 5750	Advanced Computer Architecture	CS 5420	4	Martinez, J
ECE 5770	Resilient Computer Systems		4	Suh, E
ECE 5775	High-Level Design Automation		4	Zhang, Z
ECE 5960	Advanced Topics in ECE: Graphical Models		4	Chen, T
ECE 5970	Special Topics in ECE: Machine Learning with Biomedical Data	BME 5310	4	Sabuncu, M
ECE 5990	Special Topics in ECE: Discrete Probability & Randomized Algorithms		3	Acharya, J

This list may be updated at a later date if new or additional information becomes available.

If you are unsure about a class and how it may or may not count as a Core Course, contact Scott Coldren at sec36@cornell.edu.

- ECE Course Info - <https://classes.cornell.edu/browse/roster/FA18/subject/ECE>
- ECE MEng Degree Requirements - <http://www.ece.cornell.edu/ece/academics/graduate/meng/requirements.cfm>
- **ECE Spring 2019 Courses will be made available for viewing in mid-October 2018**

Outside ECE Approved Core Courses		Fall 2018		
Course No.	Course Title	Combined with	Credit Hrs	Instructor
CEE 5900	Project Management		4	Ippolito, A
CHEME 6660	Analysis of Sustainable Energy Systems		2 – 3	Tester, J
CS 4320	Introduction to Database Systems	Combined with CS 5320	3	Trummer, I
CS 4410	Operating Systems		3	Sirer, E
CS 4820	Introduction to Analysis of Algorithms		4	Tardos, E
CS 5320	Introduction to Database Systems	Combined with CS 4320	3	Trummer, I
INFO 4320	Introduction to Rapid Prototyping and Physical Computing			Guimbretiere, F
MAE 4780	Feedback Control Systems	Combined with MAE 5780	4	MacMartin, D
MAE 5020	Wind Power	Combined with MAE 4020, MAE 4021	3	Barthelmie, R
OR 4740	Statistical Data Mining I		4	Chen, Y
ORIE 5500	Engineering Probability and Statistics II	Combined with ORIE 3500	4	Resinick, S

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- **Outside ECE Course Info will be made available for viewing in mid-October 2018 for Spring 2019**