

Planned Graduate ECE Course Offerings

Fall 2016 – Spring 2018

This pattern of course offerings is subject to change without notice. Any graduate ECE course not listed below is not being planned at this time to be offered in the Fall 2016 to Spring 2018 (inclusive) timeframe. This list does not reflect all of the graduate ECE courses to be introduced by the new faculty hired for the 2016-2017 academic year.

Architecture, Computer Systems, and Embedded Systems (ACSES) Major

| Graduate ECE Course | Fall 2016 | Spring 2017 | Fall 2017 | Spring 2018 |
|--------------------------------------|----------------------|------------------------|----------------------|------------------------|
| 380K Intro. to System Theory | | | | X |
| 380L-6 Interfacing to Operating Sys. | | X | | X |
| 380L-10 Data Mining | | X | | X |
| 380N-11 Optimization in Eng. Sys | | | | X |
| 381J Probability & Stoch. Proc. I | X | | X | |
| 381K-1 Detection & Estimation | | | | |
| 381K-2 Digital Communications | | | | X |
| 381K-5 Adv Telecom Networks | | | | X |
| 381K-6 Estimation Theory | | | X | |
| 381K-7 Information Theory | | X | | |
| 381K-11 Wireless Communications | | X | | |
| 381K-13 Analysis/Des of Comm Nets | | X | | |
| 381K-16 Digital Video | | X | | X |
| 381K-17 Wireless Comm Lab | X | | | |
| 381K-18 Convex Optimization Theory | X | | X | |
| 381M Probability & Stoch. Proc. II | | X | | |
| 381S Space-Time Communications | | | | X |
| 381V Advanced Algorithms | | X | | |
| 381V Coding Theory | | | | |
| 381V Computing with Molecules | | X | | X |
| 381V Game Theory | | | | |
| 381V Genomic Sig Proc & Data Sci | X | | | |
| 381V Large-Scale Learning | | | | |
| 381V Machine Learning: Large Data | | | | X |
| 381V Stochastic Geometry | | | X | |

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|---------------------------------------|----------------------|------------------------|----------------------|------------------------|
| 382C-3 Verification of Software | X | | | |
| 382C-7 Software Architectures | | X | | X |
| 382C-11 Requirements Engineering | | X | X | |
| 382C-12 Multicore Computing | X | | | |
| 382M-1 VLSI Testing | | X | | |
| 382M-2 Dependable Computing | | | | |
| 382M-7 VLSI I | X | | X | |
| 382M-8 VLSI II | | X | | X |
| 382M-11 Formal Verification | | X | | X |
| 382M-14 Analog IC Design | X | | X | |
| 382M-20 System on a Chip Design | | | | |
| 382M-21 Opt. Issues in VLSI CAD | X | | | |
| 382M-22 VLSI Design Automation | | | X | |
| 382M-23 Nanometer Scale IC Design | | | | X |
| 382M-24 Data Converter Circuits | | X | | X |
| 382M-25 RF IC Design | | X | | X |
| 382N-1 Computer Architecture | X | X | X | X |
| 382N-11 Distributed Systems I | | | X | |
| 382N-14 High-Speed Comp. Arith. I | | X | X | |
| 382N-17 Superscalar Architecture | | | X | |
| 382N-19 Microarchitecture | | | | X |
| 382N-20 Comp Arch: Parallelism/Loc | X | | | |
| 382N-21 Comp. Perf. Eval. | X | | | |
| 382N-22 Comp Arch: User-Sys Interplay | | | | X |
| 382N-23 Emb. Sys. Des. & Modeling | | | X | |
| 382V Activity Sensing and Recognition | X | | | |
| 382V Code Generation & Opt. | X | | | |
| 382V Dynamic Compilation | | X | | |
| 382V Human-Robot Interaction | X | | X | |
| 382V Middleware Arch. and Design | | | | |
| 382V Mobile Computing | X | | X | |
| 382V Security Hardware | X | | X | |
| 382V Software Evolution | X | | X | |
| 382V Software Testing | | X | | X |

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|--------------------------------------|----------------------|------------------------|----------------------|------------------------|
| 383L Electromagnetic Field Theory | | | X | |
| 383N Electrodynamics | X | | | |
| 383P-6 Optoelectronic Devices | | X | | |
| 383P-8 Optical Communications | | X | | X |
| 383V Electromagnetic Metamaterials | | | | X |
| 383V Nanophotonics | X | | X | |
| 383V Nonlinear Optics | | | | |
| 384N-1 Acoustics I | X | | X | |
| 384N-2 Acoustics II | | X | | X |
| 384N-3 Electromech. Transducers | X | | X | |
| 384N-4 Nonlinear Acoustics | | X | | X |
| 384N-5 Underwater Acoustics | | | X | |
| 384N-6 Architectural Acoustics | | X | | |
| 384N-7 Ultrasonics | | | | X |
| 385J-3 Bioelectric Phenomenon | | X | | |
| 385J-18 Biomedical Imaging | X | | X | |
| 385J-31 Biomedical Instr I | X | | X | |
| 385J-32 Projects in Biomedical Eng | | X | | X |
| 390V Texas Venture Labs | X | | X | |
| 391C Technical Entrepreneurship | | X | | X |
| 392K Antenna Theory & Practice | | | | X |
| 392L Comp. Electromagnetics | | X | | |
| 394-7 Power Electronic Dev & Sys | X | X | X | X |
| 394-9 Power Quality | X | | | |
| 394-13 Int. Motion for Robotics/Cont | | | | X |
| 394J-12 Model/Sim Wind Pow Plants | | | X | |
| 394L Power Apparatus Lab | | X | | X |
| 396K-2 Semiconductor Physics | | X | | X |
| 396K-8 ULSI Fabrication Techniques | X | X | X | X |
| 396K-19 Plasma Proc. I | X | | | |
| 396K-21 Submicron Dev Phy & Tech | | | | X |
| 396K-23 Semiconductor Heterostruct | | | | X |
| 396K-24 Microwave Devices | | | | |
| 396K-25 Organic & Polymer Semicon | | | | X |
| 396K-26 MEMS | | X | | |
| 396N-1 Semicond Nanostructures | X | | | X |
| 396V Carbon Device Physics | | | | X |
| 396V High-Throughput Nanopatterning | | X | | X |
| 396V Lasers and Optical Comm. | | X | | X |
| 396V Photovoltaic Devices | | X | | |