

# ELECTRICAL & COMPUTER ENGINEERING (ECE)

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**ECE 513 Powr Semicondctr Electron (0 Credits)**  
Engineering & Comp Sci

**ECE 514 Electric Power Systems (0 Credits)**  
Engineering & Comp Sci

**ECE 516 Fund Servomechanism (0 Credits)**  
Engineering & Comp Sci

**ECE 517 Systems Analysis (0 Credits)**  
Engineering & Comp Sci

**ECE 541 Integrated Circuits (0 Credits)**  
Engineering & Comp Sci

**ECE 542 Integrated Circuit Design (0 Credits)**  
Engineering & Comp Sci

**ECE 555 Microwave Engineering (0 Credits)**  
Engineering & Comp Sci

**ECE 561 Digital Machine Design (0 Credits)**  
Engineering & Comp Sci

**ECE 564 Vlsi Design Methods (0 Credits)**  
Engineering & Comp Sci

**ECE 565 Microprcssr & Microcmptr (0 Credits)**  
Engineering & Comp Sci

**ECE 566 Info Display Devices&Tech (0 Credits)**  
Engineering & Comp Sci

**ECE 571 Switching Theory (0 Credits)**  
Engineering & Comp Sci

**ECE 572 Switch Thry & Seq Mch Des (0 Credits)**  
Engineering & Comp Sci

**ECE 585 Engr Des/Operating System (0 Credits)**  
Engineering & Comp Sci

**ECE 588 Translator Design (0 Credits)**  
Engineering & Comp Sci

**ECE 590 Independent Study (0 Credits)**  
Engineering & Comp Sci

Exploration of a problem, or problems, in depth. Individual independent study upon a plan submitted by the student. Admission by consent of supervising instructor(s) and the department.  
Repeatable

**ECE 591 Spec Prob Elec Eng (0 Credits)**  
Engineering & Comp Sci

**ECE 599 Elec Engineer Lab IV (0 Credits)**  
Engineering & Comp Sci

**ECE 601 Appl/Complex Function Thr (0 Credits)**  
Engineering & Comp Sci

**ECE 602 Boundary Value Problems I (0 Credits)**  
Engineering & Comp Sci

**ECE 603 Func Meth/Linear Analysis (0 Credits)**  
Engineering & Comp Sci

**ECE 605 Analysis of Nonlinear Sys (3 Credits)**  
Engineering & Comp Sci

**ECE 606 Probabilistic Methods/Ece (0 Credits)**  
Engineering & Comp Sci

**ECE 607 Cmptr Engr Anly & Models (0 Credits)**  
Engineering & Comp Sci

**ECE 611 Intro Lin Feed Cont Sys (0 Credits)**  
Engineering & Comp Sci

**ECE 612 Modern Control Syst Synth (0 Credits)**  
Engineering & Comp Sci

**ECE 621 Electromagnetic Fields (0 Credits)**  
Engineering & Comp Sci

**ECE 631 Network Analysis (0 Credits)**  
Engineering & Comp Sci

**ECE 633 Discrete & Intgrt Circuit (0 Credits)**  
Engineering & Comp Sci

**ECE 643 Thry/Semiconductor Device (0 Credits)**  
Engineering & Comp Sci

**ECE 651 Analog Communications (0 Credits)**  
Engineering & Comp Sci

**ECE 655 Intro/General Systms Thry (0 Credits)**  
Engineering & Comp Sci

**ECE 658 Computer Commnctn Network (0 Credits)**  
Engineering & Comp Sci

**ECE 659 Microproc&Microcomptrs I (0 Credits)**  
Engineering & Comp Sci

**ECE 661 Digital Cmptr Organizatn (0 Credits)**  
Engineering & Comp Sci

**ECE 662 Computer Arithmetic (0 Credits)**  
Engineering & Comp Sci

**ECE 663 Assoc Processing Tech (0 Credits)**  
Engineering & Comp Sci

**ECE 664 Vlsi Design Methods (0 Credits)**  
Engineering & Comp Sci

**ECE 665 Microprccsr/Microcmptr II (0 Credits)**  
Engineering & Comp Sci

**ECE 667 Microprogrammed Comp Arch (0 Credits)**  
Engineering & Comp Sci

**ECE 670 Experience Credit (1-6 Credits)**  
Engineering & Comp Sci

Participation in a discipline or subject related experience. Student must be evaluated by written or oral reports or an examination. Permission in advance with the consent of the department chairperson, instructor, and dean. Limited to those in good academic standing.  
Repeatable

**ECE 682 Software Engineering (0 Credits)**  
Engineering & Comp Sci

**ECE 686 Apl Implemntatn & Extnsns (0 Credits)**  
Engineering & Comp Sci

**ECE 690 Independent Study (1-6 Credits)**  
Engineering & Comp Sci

Exploration of a problem, or problems, in depth. Individual independent study upon a plan submitted by the student. Admission by consent of supervising instructor(s) and the department.  
Repeatable

**ECE 691 Special Problems in Ece (0 Credits)**

*Engineering & Comp Sci*

**ECE 698 Specl Topics in Computers (0 Credits)**

*Engineering & Comp Sci*

**ECE 702 Boundary Value Prob II (0 Credits)**

*Engineering & Comp Sci*

**ECE 712 Optimal Control Systems (0 Credits)**

*Engineering & Comp Sci*

**ECE 713 Non-Ln,Samp&Carr Cont Sys (0 Credits)**

*Engineering & Comp Sci*

**ECE 715 Robot Manipulators I (0 Credits)**

*Engineering & Comp Sci*

**ECE 721 Antennas & Antenna Systms (0 Credits)**

*Engineering & Comp Sci*

**ECE 725 Electromagnetic Engr I (0 Credits)**

*Engineering & Comp Sci*

**ECE 726 Cmputatnl Meth/Fld Theory (0 Credits)**

*Engineering & Comp Sci*

**ECE 727 Adv Electromag Theory (0 Credits)**

*Engineering & Comp Sci*

**ECE 735 Digital Electronic Crcts (0 Credits)**

*Engineering & Comp Sci*

**ECE 741 Solid State Theory/Engs I (0 Credits)**

*Engineering & Comp Sci*

**ECE 742 Electronic Materials (0 Credits)**

*Engineering & Comp Sci*

**ECE 743 Theory/Semicndctr Devices (0 Credits)**

*Engineering & Comp Sci*

**ECE 747 Quantum Electronics I (0 Credits)**

*Engineering & Comp Sci*

**ECE 751 Digital Communications (0 Credits)**

*Engineering & Comp Sci*

**ECE 753 Radar Engineering (0 Credits)**

*Engineering & Comp Sci*

**ECE 754 Optical Inform Processing (0 Credits)**

*Engineering & Comp Sci*

**ECE 755 Digital Signal Process I (0 Credits)**

*Engineering & Comp Sci*

**ECE 756 Random Processes (0 Credits)**

*Engineering & Comp Sci*

**ECE 759 Microproc & Microcmptr II (0 Credits)**

*Engineering & Comp Sci*

**ECE 763 Parallel Proccsng Systems (0 Credits)**

*Engineering & Comp Sci*

**ECE 766 Computer Peripherals (0 Credits)**

*Engineering & Comp Sci*

**ECE 768 Modeling&Perf Eval/Comprr (0 Credits)**

*Engineering & Comp Sci*

**ECE 771 Sequential Machine Theory (0 Credits)**

*Engineering & Comp Sci*

**ECE 782 Modls&Metrcs/Softwre Engr (0 Credits)**

*Engineering & Comp Sci*

**ECE 786 Pattern Recognition (0 Credits)**

*Engineering & Comp Sci*

**ECE 787 Digital Image Processing (0 Credits)**

*Engineering & Comp Sci*

**ECE 788 Digtl Sys I-Physical Dsgn (0 Credits)**

*Engineering & Comp Sci*

**ECE 789 Computer Aided Des-Logic (0 Credits)**

*Engineering & Comp Sci*

**ECE 790 Independent Study (1-6 Credits)**

*Engineering & Comp Sci*

Exploration of a problem, or problems, in depth. Individual independent study upon a plan submitted by the student. Admission by consent of supervising instructor(s) and the department.

Repeatable

**ECE 791 Special Problems in Ece (0 Credits)**

*Engineering & Comp Sci*

**ECE 795 Electrnc Device & Circts (0 Credits)**

*Engineering & Comp Sci*

**ECE 811 Adv.Topics in Control Sys (0 Credits)**

*Engineering & Comp Sci*

**ECE 821 Sp Top:Electromag Theory (0 Credits)**

*Engineering & Comp Sci*

**ECE 827 Elctromgntc Egr II (0 Credits)**

*Engineering & Comp Sci*

**ECE 851 Detectn & Estimatr Thry (0 Credits)**

*Engineering & Comp Sci*

**ECE 853 Adv Tpcs/Communicatn Thry (0 Credits)**

*Engineering & Comp Sci*

**ECE 855 Digital Signal Process II (0 Credits)**

*Engineering & Comp Sci*

**ECE 890 Independent Study (0 Credits)**

*Engineering & Comp Sci*

Exploration of a problem, or problems, in depth. Individual independent study upon a plan submitted by the student. Admission by consent of supervising instructor(s) and the department.

Repeatable

**ECE 990 Independent Study (1-6 Credits)**

*Engineering & Comp Sci*

Exploration of a problem, or problems, in depth. Individual independent study upon a plan submitted by the student. Admission by consent of supervising instructor(s) and the department.

Repeatable

**ECE 997 Masters Thesis (0 Credits)**

*Engineering & Comp Sci*

**ECE 999 Dissertation (1-15 Credits)**

*Engineering & Comp Sci*

Repeatable