

Area Courses VLSI/CAD

Fundamental Courses

EE 448L Communication Electronics

4 units

EE 454L Introduction to System-on-Chip

4 units

EE 457 Computer Systems Organization

4 units

EE 477L MOS VLSI Circuit Design

4 units

EE 479 Analog Integrated Circuit Design

4 units

CSCI 455x Introduction to Programming Systems Design

4 units

VLSI/CAD

EE 552 Asynchronous VLSI Design

3 units

EE 477L

EE 580 System Verification

4 units

EE 457, EE 477L

EE 658 Diagnosis and Design of Reliable Digital Systems

3 units

EE 681 Computer-Aided Design of Digital Systems II

3 units

EE 557, EE 680

EE 560L Digital System Design

4 units

EE 457

EE 581 Mathematical Foundations for System Design: Modeling, Analysis, and Synthesis

4 units

EE 447L or EE 479

EE 680 Computer-Aided Design of Digital Systems I

3 units

EE 577a

EE 581

Circuits and Devices

EE 504L Solid-State Processing and Integrated Circuits Laboratory

3 units

EE 507 Micro- and Nano-Fabrication Technology

3 units

EE 537 Modern Solid-State Devices

4 units

EE 632 Integrated Communication Systems

4 units

EE 479

EE 505 Analog, Mixed-Signal, and RF Integrated-Circuit Tape-Out

3 units

EE 536a

EE 508 Nano-Fabrication Lithography

3 units

EE 576 Integrated Memory Devices and Technologies

3 units

EE 536ab Mixed-Signal Integrated Circuit Design

4 units

EE 448L or EE 479

EE 582 CMOS: Nano Neuromorphic Circuits

4 units

EE 447L or EE 479

Computer Systems

EE 557 Computer Systems Architecture

4 units

EE 457

EE 577ab VLSI System Design

3 units

EE 477L

EE 659 Interconnection Networks

3 units

EE 557

CSCI 570 Analysis of Algorithms

4 units

EE 595 Software Design and Optimization

4 units

EE 447L or EE 479

EE 677 VLSI Architecture and Algorithms

3 units

EE 457, CSCI 570

Legend

Grouping

EE 000 Course Title

Course Units

Recommended Prep.

Prerequisite Courses

Corequisite Courses

This chart shows course relationships

Please check the University Catalogue for specific course details including any recommended preparatory courses and Degree Requirements