VLSI and Circuit Design Area Graduate Courses

Core Courses
ECE 606 – Solid State Devices
ECE 608 – Computational Models and Methods

Suggested Courses
ECE 538 – Digital Signal Processing
ECE 546 – Digital Computational Techniques for Electronic Circuits
ECE 556 – Fundamentals of Microelectronic Processing
ECE 557 – Integrated Circuit Fabrication Laboratory
ECE 559 – MOS VLSI Design
ECE 565 – Computer Architecture
ECE 568 – Embedded Systems
ECE 572 – Fault Tolerant Computer Systems
ECE 573 – Compilers and Translator Writing Systems
ECE 580 – Optimization Methods for Systems and Control
ECE 595A – CMOS Analog IC Design
ECE 595Z – Digital VLSI Design Automation
ECE 612 – Advanced VLSI Devices
ECE 670 – Modeling and Optimization of High-Performance Interconnects
ECE 688 – VLSI Testing and Verification
ECE 695F – Radio Frequency Integrated Circuits
ECE 695K – Advanced VLSI Design
ECE 695R – System-on-chip Design

Math Courses
MA 518 – Advanced Discrete Mathematics
MA 553 – Intro to Abstract Algebra
MA 557 – Abstract Algebra I
MA 575 – Linear Graph Theory
MA 585 – Mathematical Logic I
MA 586 – Mathematical Logic II