

El E 385: Advanced Digital Systems Electrical and Computer Engineering

Advanced Digital Systems: RTL hardware design using VHDL; coding, simulation, synthesis, and implementation of digital system in FPGA; combinational and sequential building blocks; timing analysis; trade- offs in design metrics; overview of transistor-level design; arithmetic circuits; number system; memory arrays; logic arrays; temporal and spatial parallelism.

3 Credits

Prerequisites

- El E 235: Principles of Digital Systems (Minimum grade: C-)
- Pre-Requisite: 24 Earned Hours

Corequisites

• El E 386: Advanced Digital Systems Laboratory

Instruction Type(s)

• Lecture: Lecture for El E 385

Subject Areas

- Computer Engineering, General
- Electrical and Electronics Engineering

The University of Mississippi is accredited by the Southern Association of Colleges and Schools Commission on Colleges to award certificates and baccalaureate, master's, specialist, and doctoral degrees. Contact the Commission on Colleges at 1866 Southern Lane, Decatur, Georgia 30033-4097, call 404-679-4500, or visit online at www.sacscoc.org for questions about the accreditation.

