

Csci 530: Computer Architecture and Design

This course studies the past evolution and current trends in computer architecture and the factors influencing the design of hardware and software components of computer systems. Topics include processor micro- architecture, instruction set architecture, hardware parallelism, memory subsystems, various processor design paradigms (superscalar, VLIW, multicore, and GPU), and performance analysis.

3 Credits

Prerequisites

• Csci 223: Computer Org. & Assembly Language \$target.descriptions.MinimumGrade\$

Instruction Type(s)

Lecture: Lecture for Csci 530

Subject Areas

<u>Computer Science</u>

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.

