

University of North Alabama
Departmental Syllabus

COURSE: CS 420

COURSE TITLE: Systems Software

CREDIT: 3 Semester hour

PREREQUISITE: CS 355

COURSE DESCRIPTION: Software systems concepts with special emphasis on the design and function of operating systems. Popular operating systems, assemblers, macro processors, and loaders will be presented.

COURSE OBJECTIVE: To present various types of systems software. To discuss the machine dependent and machine independent features with respect to assemblers, loaders, macroprocessors and operating systems. To relate these topics to actual implementation examples.

COURSE CONTENT: Assemblers, macro processors, loaders and Operating Systems. Machine structure of a simplified instructional machine and actual machines such as the IBM System/370, VAX, and CYBER.

COURSE REQUIREMENTS: Class attendance, midterm, and a final exam. Design of an assembler. Design of a component of an operating system.

COURSE EVALUATION: Grading is a weighted average of the score earned on the midterm, final and the programming assignments.

Accommodation Statement: In accordance with the Americans with Disabilities Act (ADA) and Section 504 of the Rehabilitation Act of 1973, the University offers reasonable accommodations to students with eligible documental learning, physical and/or psychological disabilities. Under Title II of the Americans with Disabilities Act (ADA) of 1990 and Section 504 of the Rehabilitation Act of 1973, a disability is defined as a physical or mental impairment that substantially limits one or more major life activities as compared to an average person in the population. It is the responsibility of the student to contact Developmental Services prior to the beginning of the semester to initiate the accommodation process and to notify instructors within the first three class meetings to develop an accommodation plan. Appropriate, reasonable accommodations will be made to allow each student to meet course requirements, but no fundamental or substantial alteration of academic standards will be made. Students needing assistance should contact Development Services.