

CS303 - Algorithms and Data Structures

Syllabus

Catalog Description

Efficient design of data structures, recursive algorithms, algorithms for sorting and searching, complexity analysis of algorithms, applications of algorithms and data structures in problems, state spaces, and search strategies in artificial intelligence. Laboratory emphasizes object-oriented approach.

Prerequisites:

CS 250 and CS 302 (with grades of C or better)

Instructor:

Kenneth Sloan <sloan@uab.edu>, 133 Campbell Hall

Office Hours:

TBA

Text:

Robert Sedgewick, *Algorithms In Java, Parts 1-4*, 3rd Edition, Addison Wesley, ISBN 0-201-36120-5
Robert Sedgewick, *Algorithms In Java, Part 5*, 3rd Edition, Addison Wesley, ISBN 0-201-36121-3

Course Outline:

Coming soon ...

Grades are based on lab assignments and class exams.

There is a [CIS Discussion Forum](#) associated with this class - please use it!

Last Modified: 30 September 2005