

SCHOOL OF ENGINEERING
AND APPLIED SCIENCE

UNIVERSITY OF CALIFORNIA
LOS ANGELES

COURSE PROPOSAL

TO: Office of Student Affairs
6426 Boelter Hall

Date: January 12, 1999

FROM: D.S. Parker Computer Science
(Proposer) Department

Course No. CS141 Title Basic Methods of Data Organization

New Course _____ Revision _____ Deletion X

Prerequisites _____

CATALOG DESCRIPTION (Limit 40 words):

141. Basic Methods of Data Organization. Lecture, four hours; laboratory, two hours; outside study, six hours. Prerequisite: course 32 or consent of instructor. Fundamental techniques for organizing and manipulating data, stressing relationships to performance, time/storage trade-offs. Sequential and linked storage allocation for linear lists, multilinked structures. Trees: implementation, traversals, mathematical properties. Graphs and networks: memory representation, algorithms. Dynamic storage allocation. External storage devices. Database concepts and architectures. Topics include sorting-searching, algorithmic analysis, graph theory, concepts underlying file management.

JUSTIFICATION FOR PROPOSAL:

This course been superseded by CS180 (Algorithms and Complexity).

Revised 1/12/98

