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This course been superseded by CS180 (Algorithms and Complexity).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

Does this modification affect major or minor field program?
Yes _____ No ___**X**____

Submit major field program sheets with handwritten correction.

This course is recommended to satisfy an elective constraint as indicated below:

	Suggested Units (please circle)	Constraints Units Approved by UPC
___ Design_____	0 1 2 3 4	0 1 2 3 4
___ Engineering Science_	0 1 2 3 4	0 1 2 3 4
___ Laboratory_____	0 1 2 3 4	0 1 2 3 4
___ Engineering and Science in Society		DO_NOT_FILL_IN
___ Mathematics - Upper division		

RECOMMENDED Signatures(s):

_____ _____
DEPARTMENT CHAIRMAN PROPOSER DATE

_____ _____
ACADEMIC POLICY COMMITTEE (CSD) CHAIRMAN PROPOSER DATE

_____ Signature: _____
EXECUTIVE COMMITTEE (SEAS) CHAIRMAN INSTRUCTOR IN CHARGE DATE