TO: Office of Student Affairs

FROM: D.S. Parker

Date: January 12, 1999

6426 Boelter Hall

Computer Science

Course No. CS141

Title Basic Methods of Data Organization

New Course ___________ Revision ___________ Deletion _____

Prerequisites

__________________________________________________________

______________________________
(Proposer)

______________________________
Department

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This course been superseded by CS180 (Algorithms and Complexity).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

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<thead>
<tr>
<th>Constraints</th>
<th>Suggested Units</th>
<th>Units Approved by UPC</th>
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<td>___ Design___ 0 1 2 3 4</td>
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<td>___ Mathematics - Upper division</td>
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RECOMMENDED Signatures(s):

_________________________ _______________________________
DEPARTMENT CHAIRMAN PROPOSER DATE

_________________________ _______________________________
ACADEMIC POLICY COMMITTEE (CSD) PROPOSER DATE
CHAIRMAN

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