



COMMON COURSE OUTLINE: Course discipline/number/title: COMP 2247: Algorithms and Data Structures

A. CATALOG DESCRIPTION

1. Credits: 4
2. Hours/Week: 4
3. Prerequisites (Course discipline/number): COMP 1150, COMP 2243; college level reading
4. Co-requisites (Course discipline/number): None
5. MnTC Goals (if any): NA

Problem solving techniques with data structures such as records, dynamic structures, and pointer variables. Introduction to object-oriented concepts. Use of linked lists, stacks, ques, and binary search trees. Sorting and searching algorithms. Complexity of algorithms.

B. DATE LAST REVISED (Month, year): March, 1997

C. OUTLINE OF MAJOR CONTENT AREAS:

1. Records pointer variables
2. Dynamic structures
3. Classes linked lists
4. Sorting algorithms search
5. Algorithms complexity or
6. Algorithms stacks queues
7. Binary search trees

D. LEARNING OUTCOMES (GENERAL): The student will be able to:

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E. LEARNING OUTCOMES (MNTC): NA

F. METHODS FOR EVALUATION OF STUDENT LEARNING:

1. Test programming assignments
2. Written comprehensive final

G. SPECIAL INFORMATION (if any): None