



EFFECTIVE: MAY 2006
CURRICULUM GUIDELINES

A. Division: Instructional

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M: Course Objectives / Learning Outcomes

At the end of the course, the successful student should be able to:

- write English statements in symbolic form us

- classify a grammar;
- find the language created by a grammar;
- draw the state diagram for a finite-state machine;
- construct a finite-state machine to perform a function;
- determine the output of a finite state machine;

N: Course Content:

1. Logic
2. Set Theory
3. Functions
4. Algorithms, Integers and Matrices
5. Mathematical Reasoning and Recursive Definitions
6. Counting
7. Relations
8. Graphs and Trees
9. Languages and Finite State Machines

O: Methods of Instruction