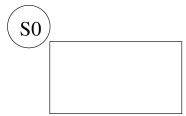
# EE/CompE 243 Algorithmic State Machine Diagrams

Algorithmic State Machine (ASM, or sometimes just SM) charts represent a different format for desribing a state machine. They are more of a flowchart.

### **Basic Building Blocks**

#### **State Box and State Label**

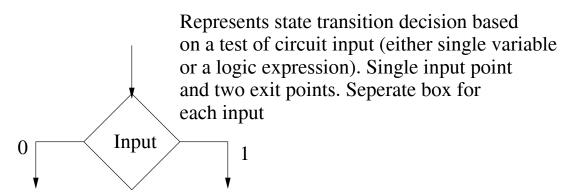
The state label is sometimes entered in the state box



Description of what the state represents (in a sequence detector. this might be something line: 001)

In the case of a Moore machine also enter the present output.

#### **Decision Box**



#### **Conditional Output Box**



Specifies output associated with state transitions for a given input. Only applies to Mealy machines. Placed in path between decision box and state block.

## Two representations for the same state machine

