

SYLLABUS  
PART I  
EDISON STATE COMMUNITY COLLEGE  
AVN 204S MULTI-ENGINE COMMERCIAL GROUND  
2 CREDIT HOURS

**COURSE DESCRIPTION**

Develop the aeronautical knowledge necessary to conduct flight training in a complex multi-engine aircraft to meet the requirements of the Multi-Engine Commercial Rating. Prerequisite: AVN 203S, and/or department permission.

**COURSE GOALS**

The student will:

Bloom's Level		Program Outcomes
3	1. Demonstrate knowledge of multi-engine aircraft systems and aerodynamics.	3,4
3	2. Demonstrate knowledge of multi-engine aircraft performance and weight and balance calculations.	3
3	3. Demonstrate knowledge of single-engine operations in a multi-engine aircraft.	3,4
3	4. Demonstrate knowledge of multi-engine flight operations.	3,6
3	5. Demonstrate knowledge of the multi-engine flight maneuvers to commercial pilot standards.	2
3	6. Demonstrate knowledge of aeromedical factors, Aeronautical Decision Making (ADM), and Cockpit Resource Management (CRM).	8

**CORE VALUES**

The Core Values are a set of principles that guide in creating educational programs and environments at Edison State Community College. They include communication, ethics, critical thinking, human diversity, inquiry/respect for learning, and interpersonal skills/teamwork. The goals, objectives, and activities in this course will introduce/reinforce those Core Values wherever appropriate.

**TOPIC OUTLINE**

1. Multi-engine aircraft systems
2. Multi-engine performance calculations
3. Single engine aerodynamics
4. Cockpit resource management