SYLLABUS
PART I
EDISON STATE COMMUNITY COLLEGE
AVN 201S COMMERCIAL GROUND
3 CREDIT HOURS

COURSE DESCRIPTION
Develop the aeronautical knowledge necessary to conduct commercial pilot operations. Develop the necessary aeronautical knowledge to pass the FAA computer based Commercial Pilot knowledge test. Prerequisite or Co-requisite: AVN 112S and/or department permission. Lab fee.

COURSE GOALS
The student will:

Bloom's Level		Program Outcomes
5	1. Comprehend complex aircraft systems and operations.	1,3,4
3	2. Demonstrate knowledge of complex aircraft and aerodynamics.	1,3,4
3	3. Demonstrate knowledge of complex aircraft performance and weight and balance calculations.	1,3
3	4. Demonstrate knowledge of complex aircraft systems.	1,3,4
5	5. Comprehend cross country flight operations pertaining to complex aircraft and advanced navigation systems.	1,3,4,8
3	6. Demonstrate knowledge of advanced navigation systems.	1,4,7,8
3	7. Demonstrate knowledge of autopilot operations and techniques.	1,3,4,8
5	8. Comprehend flight operations as a commercial pilot.	1,6,7,8
3	9. Demonstrate knowledge of basic and advanced flight maneuvers.	1,3
3	10. Demonstrate knowledge of aeromedical factors and Aeronautical Decision Making (ADM).	1,6,8
3	11. Demonstrate knowledge of Federal Aviation Regulations (FAR) and National Transportation Safety Board (NTSB) reporting requirements.	1,7
2	12. Interpret FAA knowledge test questions.	1
5	13. Perform advanced navigation and performance calculations.	1,3
1	14. Memorize applicable Federal Aviation Regulations.	1,7

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. Complex aircraft and/or Technically Advanced Aircraft (TAA) systems
2. Autopilot operation and techniques
3. Cross country flight concepts with advanced aircraft equipment
4. High altitude operations
5. Aeronautical Decision Making (ADM)
6. Crew Resource Management (CRM)
7. FAA computer-based Commercial Pilot knowledge test