

# SYLLABUS

## **COURSE # AND TITLE:**

AVIA 220 - Advanced Commercial Ground School

## **# OF CREDITS**

3 Credit Hours

## **CATALOG DESCRIPTION:**

A study of all areas pertaining to FAA Commercial Pilot Written Exam. The basic study of Federal Regulations governing operations, privileges, and limitations of a commercial pilot, to include accident reporting requirements of the N.T.S.B., basic aerodynamics, and principles of flight, plus specific airplane operation, including the use of flaps, retractable landing gear, controllable propellers, high altitude operations, load & balance computations, and aircraft performance charts. Additionally a basic study of turbine aircraft systems and operations, high altitude weather and aerodynamics of high speed/high altitude aircraft will be undertaken.

## **LEARNING OBJECTIVES:**

1. Introduce Commercial pilot operations
2. Introduce advanced systems, Aerodynamics, Performance
3. Introduce Commercial Maneuvers
4. Apply Commercial Pilot Federal Aviation Regulations
5. Introduction to Multi-Engine and Turbine aircraft

## **EXPECTED LEARNING OUTCOMES:**

**Upon successful completion of this course the student will possess the ability to:**

1. Pass the FAA Commercial written Exam
2. Explain and perform all commercial maneuvers
3. Explain and understand advanced IFR operations
4. Understand and apply Federal Regulations pertaining to Commercial pilots
5. Understand and explain weather phenomena associated to commercial aircraft operation
6. Explain and understand complex aircraft systems and performance

This syllabus developed by: Gerry Klucar date: November 6, 2006

This syllabus reviewed by: \_\_\_\_\_ date.