



## MASTER COURSE OUTLINE

Prepared By: Gregory Crane

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## COURSE TITLE

COMMERCIAL PILOT GROUND SCHOOL

## GENERAL COURSE INFORMATION

Dept.: AVF

Course Num: 221

(Formerly: )

CIP Code: 49.0102

Intent Code: 21

Program Code:

Credits: 5

Total Contact Hrs Per Qtr.: 55

Lecture Hrs: 55

Lab Hrs:

Other Hrs:

Distribution Designation: General Elective (GE)

## COURSE DESCRIPTION (as it will appear in the catalog)

Preparation for the FAA Commercial Pilot Knowledge Test. Includes study of applicable FARs, accident reporting requirements of the NTSB; basic aerodynamics and the principles of flight; meteorology and the use of weather reports and forecasts; safe and efficient operation of aircraft; weight and balance computations; use of performance charts, performance limitations; use of navigation facilities, ADM judgment and CRM; principles and functions of aircraft systems; maneuvers, procedures and emergency operations; night and high-altitude operations; the National Airspace System.

## PREREQUISITES

AVF 113 & AVF 114

## TEXTBOOK GUIDELINES

*The Advanced Pilots Flight Manual* by William K. Kershner

Commercial Pilot study guide

Selected FAA advisory circulars and other pertinent publications reproduced by BBCC for this course.

FAR/AIM

## COURSE LEARNING OUTCOMES

*Upon successful completion of the course, students should be able to demonstrate the following knowledge or skills:*

1. Demonstrate necessary aeronautical knowledge and meet the prerequisites specified in Title 14 CFR Part 61 for the Commercial Pilot Knowledge Test.

## INSTITUTIONAL OUTCOMES

## COURSE CONTENT OUTLINE

1. Federal Aviation Regulations that apply to commercial pilot privileges, limitations, and flight operations;
2. Accident reporting requirements of the National Transportation Safety Board;
3. Basic aerodynamics and the principles of flight;
4. Meteorology, to include recognition of critical weather situations, windshear recognition and avoidance, and the use of aeronautical weather reports and forecasts;
5. Safe and efficient operation of aircraft;

6. Weight and balance computations;
7. Use of performance charts;
8. Significance and effects of exceeding aircraft performance limitations;
9. Use of aeronautical charts and a magnetic compass for pilotage and dead reckoning;
10. Use of air navigation facilities;
11. Aeronautical decision making and judgment;
12. Principles and functions of aircraft systems;
13. Maneuvers, procedures, and emergency operations appropriate to the aircraft;
14. Night and high-altitude operations; and
15. Description of and procedures for operating within the National Airspace System

**DEPARTMENTAL GUIDELINES** *(optional)*

The student shall demonstrate through oral quizzes, written tests, and records that he/she meets the prerequisites specified in Title 14 CFR Part 61, and pass the final examination with a score of at least 70%. Grades will be earned according to the following numerical system. Note \*70% is lowest passing grade.

98-100%	4.0	90%	3.2	82%	2.4	74%	1.5
97%	3.9	89%	3.1	81%	2.3	73%	1.3
96%	3.8	88%	3.0	80%	2.2	72%	1.1
95%	3.7	87%	2.9	79%	2.1	71%	.9
94%	3.6	86%	2.8	78%	2.0	70%	.7
93%	3.5	85%	2.7	77%	1.9		
92%	3.4	84%	2.6	76%	1.8		
91%	3.3	83%	2.5	75%	1.7		

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**DIVISION CHAIR APPROVAL**

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**DATE**