



MASTER COURSE OUTLINE

Prepared By: Gregory Crane

Date: January 2014

COURSE TITLE

Pre-flight Ground School

GENERAL COURSE INFORMATION

Dept.: AVF

Course Num: 111

(Formerly:)

CIP Code: 49.0102

Intent Code: 21

Program Code:

Credits: 1

Total Contact Hrs Per Qtr.: 11

Lecture Hrs: 11

Lab Hrs:

Other Hrs:

Distribution Designation: GE

COURSE DESCRIPTION (as it will appear in the catalog)

This course introduces the student to the aircraft, its flight manual, the basic federal aviation regulations, elementary principles of flight, aircraft operations, and BBCC flight rules. This course starts the week prior to the normal class starting date. All students accepted and alternates must attend this course. Pre-program counseling is done at this time, and flight training is started.

PREREQUISITES

Accepted flight student status

TEXTBOOK GUIDELINES

Pre-flight Handbook (By BBCC Flight Dept.) Beech B-19 flight manual by manufacturer.

COURSE LEARNING OUTCOMES

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

1. Demonstrate, by passing a written test, an understanding of basic aerodynamics, control function, systems operation, safety procedures, general department operating procedures, FAR's pertinent to student solo flight, airport traffic patterns, and airport runway and taxiing layout.

INSTITUTIONAL OUTCOMES

COURSE CONTENT OUTLINE

Unit I

1. Airplane General Systems
 - Limitations
 - Normal Procedure
 - Emergency Procedure
 - Weight and Balance
 - Handling
 - Service
 - Safety

- Performance
- 2. Basics of Flight
 - Aerodynamics
 - Control Function
- 3. Maneuvers

Unit II

1. 1.BBCC Rules & Procedures
 - Student Flight Handbook
 - Section 1
 - Section 2
 - Section 6
 - Section 7
2. Aircraft Safety
 - Human Behavior
 - Risks
 - Vision/scanning
 - Judgment
3. FARs
 - 61
 - 91
 - Subparts A, B, & C
4. Safety
 - Air safety
 - Ground safety
 - Runway safety information

Unit III

1. Grant County Airport & Local Flying Area
 - Orientation
 - Magnetic
 - True
 - Runways
 - Taxiways
 - Traffic pattern
 - Taxi routes
 - Radio procedure
 - Time conversion
 - Light signals
 - Area boundaries

DEPARTMENTAL GUIDELINES *(optional)*

One final comprehensive written test will be given upon course completion.

Grades will be earned in accordance with the following standardized table as adjusted between all class sections. Note *70% is lowest passing grade.

98-100%	4.0	94%	3.6	90%	3.2
97%	3.9	93%	3.5	89%	3.1
96%	3.8	92%	3.4	88%	3.0
95%	3.7	91%	3.3	87%	2.9

86%	2.8	80%	2.2	74%	1.5
85%	2.7	79%	2.1	73%	1.3
84%	2.6	78%	2.0	72%	1.1
83%	2.5	77%	1.9	71%	0.9
82%	2.4	76%	1.8	70%	0.7
81%	2.3	75%	1.7		

DIVISION CHAIR APPROVAL

DATE