

SYLLABUS

COURSE # AND TITLE:

AVIA 120 Commercial Ground School

OF CREDITS

3 Credits

CATALOG DESCRIPTION:

This course covers the basic study of meteorology, navigation, theory of flight, and the study of the aircraft power plant and general service of aircraft. Additionally, a basic study of all areas pertaining to the FAA Private Pilot Written Exam will be undertaken. Co requisite: AVIA 145. Semester Offered-Fall, Summer and Spring.

LEARNING OBJECTIVES:

1. Students will show functional knowledge of the principles of aerodynamics, powerplants, and the aircraft systems of a single engine aircraft.
2. Students will show functional knowledge of all areas of required knowledge as specified by the Federal Aviation Regulations Part 61.105, Aeronautical Knowledge: Private Pilot.
3. Students will show functional knowledge of the applicable Federal Aviation Regulations that relate to private pilot privileges, limitations and flight operations.
4. Students will show functional knowledge in the use of aeronautical charts for VFR navigation using pilotage, dead reckoning, and navigation systems.
5. Students will show functional knowledge of proper radio communication procedures in all VFR airspace.
6. Students will show functional knowledge in the procurement and interpretation of aeronautical weather reports and forecasts.
7. Students will be able to accurately compute the weight and balance of a loaded aircraft.
8. Students will be able to accurately determine the expected performance of an aircraft including takeoff and landing distances, and cruise performance.
9. Students will be able to accurately interpret the indications from select radio aids to navigation.
10. Students will show functional knowledge in factors that affect aeronautical decision making and judgment, including flight physiology and the IMSAFE checklist.

EXPECTED LEARNING OUTCOMES:

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

1. Pass the FAA Private Pilot written exam.
2. Pass the oral portion of the FAA Private Pilot practical test.
3. Operate safely as a Private Pilot within the federal airway system.

This syllabus developed by: David Walsh date: 03/15/04.

This syllabus reviewed by: _____ date: _____.