INTEGRATING HUMAN FACTORS & PILOT SKILLS
Course Syllabus

Course Number: PPGS-A1037
OHLAP Credit: No
OCAS Code: None
Course Length: 75 Hours
Career Cluster: Transportation, Distribution & Logistics
Career Pathway: Pilot
Career Major(s): Private Pilot (Ground School)

Pre-requisite(s):
This course covers aviation physiology and aeronautical decision making to help students improve their judgment and prepare them to be pilot-in-command of an aircraft. Unlike birds, humans are terrestrial creatures who, in order to fly, must adapt to changes in barometric pressure, variation in temperature, movement at high speed in three dimensions, etc. We are sometimes limited by such things as poor night vision, visual illusions, disorientation, motion sickness, and hypoxia, to list a few. In this course, students will be given scenarios that will force them to make decisions regarding various flight situations. As pilot-in-command, you are faced with a continuous stream of decisions during each flight, and whether you and your passengers and/or airplane arrive safely at your destination depends on the wisdom and effectiveness of your choices.

Textbooks:
Jeppesen Private Pilot Maneuvers
Airmens’ Information Manual

Course Objectives:
A. Aviation Physiology
   1. Vision considerations
   2. Disorientation
   3. Respiration/hypoxia/hyperventilation

B. Aeronautical Decision Making
   1. Applying the decision-making process
   2. Pilot-in-command responsibility
   3. Communication
   4. Resource use
   5. Workload management
   6. Human factors training in action

C. Flying Cross Country
   1. The flight planning process
   2. The flight

TTC objectives
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Teaching Methods: The class will primarily be taught by the lecture and demonstration method and supported by various media materials to address various learning styles. There will be question and answer sessions over material covered in lecture and media presentations. Supervised lab time is provided for students to complete required projects.

Grading Procedures: 1. Students are graded on theory and shop practice and performance. 2. Each course must be passed with seventy (70%) percent or better. 3. Grading scale: A=90-100%, B=80-89%, C=70-79%, D=60-69%, F=50-59%.

Description of Classroom, Laboratories, and Equipment: Tulsa Technology Center campuses are owned and operated by Tulsa Technology Center School District No. 18. All programs provide students the opportunity to work with professionally certified instructors in modern, well-equipped facilities.

Available Certifications/College Credit The student may be eligible to take state, national or industry exam after completion of the program. College credit may be issued from Oklahoma State University-Okmulgee or Tulsa Community College. See program counselor for additional information.

College Credit Eligibility: The student must maintain a grade point average of 2.0 or better.