FLIGHT OPERATIONS
Course Syllabus

Course Number: PPGS-A1034
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):
Ensuring the safety of flight is the number one priority as a pilot. This course covers various aspects of safety, such as collision avoidance, airport operations and maintaining safe altitudes. Students will learn correct runway and taxiway usage, the essentials of night flying, and how to enter standard traffic patterns utilized at most airports. They will study aeronautical charts which provide topography and navigational information, along with a breakdown of the airspace classifications used by ATC (Air Traffic Control) to coordinate the large amount of air traffic in our skies. Radio procedures and sources of flight information will also be covered.

Textbooks:
Jeppesen Private Pilot Maneuvers
Airmens’ Information Manual

Course Objectives:

A. Safety of Flight
1. Collision Avoidance
2. Flight over hazardous terrain
3. Taxiing in the wind

B. Airports
1. Controlled and uncontrolled
2. Runway layout
3. Traffic pattern
4. Visual aids / airport signs
5. Airport lighting and visual glide slope

C. Aeronautical Charts
1. Latitude and longitude
2. Sectional charts
3. Chart zymology

D. Airspace
1. Airspace classifications
2. ADIZ (Air defense identification zones)

E. Radar and ATC Services
1. Radar
2. Transponder
3. FAA radar
F. Radio Procedures
   1. VHF communication equipment
   2. Using the radio
   3. Phonetic alphabet
   4. Departure, clearance, ground control, arrival
   5. Lost communication procedures
   6. Emergency procedures

G. Sources of Flight Information
   1. Airport/facility directory
   2. FARs, AIM, NOTAMs, etc.

TTC objectives

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.