OBJECTIVE

This lesson will develop the student's ability to plan a cross-country flight (under VFR or IFR as appropriate) using real time weather. The student will understand the aircraft's performance capabilities by calculating the estimated time en route and total fuel requirements.

ELEMENTS

VFR Flight

- Appropriate and current aeronautical charts
- Choosing easily identifiable en route checkpoints
- Identification of airspace, obstructions, and terrain features
- Selection on the most favorable altitudes considering weather conditions and equipment capabilities
- Computations of headings, flight time, and fuel requirements
- Selection of appropriate navigation system/facilities and communication frequencies
- Application of pertinent information from NOTAMs, A/FD, and other flight publications
- Completion a navigation log and simulated filing of a VFR flight plan

IFR Flight

- En route charts, instrument departure procedures (DPs), RNAV, STAR, and Standard Instrument Approach Procedure Charts (IAP)
- NOTAM information
- Completion and simulated filing of an IFR flight plan

REFERENCE

The Flight Instructor's Kit

- Area of Operation 2, Task G: Navigation and Flight Planning
- Area of Operation 2, Task I: Airspace and Weather Minimums
- Area of Operation 2, Task I: Federal Aviation Regulations
- Area of Operation 6: Flight Planning Forms

COMPLETION STANDARDS

The student should be able to present and explain a planned cross-country flight, as assigned by the instructor.