

**UNIVERSITY OF OKLAHOMA INSTRUMENT PILOT (3572)**  
**FLIGHT TRAINING SYLLABUS 2026-AUG-17**

**PREREQUISITES FOR ENROLLMENT IN THE FLIGHT PORTION OF THE INSTRUMENT PILOT COURSE:** The student must hold at least a private pilot certificate with airplane single engine land rating and have an FAA medical certificate valid for at least third class privileges.

**COURSE OBJECTIVE:** The student will obtain the knowledge, skill and aeronautical experience to meet the requirements of 14 CFR, Section 141, Appendix C to add an instrument airplane rating to your private pilot certificate (with existing airplane single engine land rating).

**COURSE POLICY:** At the discretion of the instructor, students who progress rapidly within a specific stage, may within reasonable variances, continue to the next lesson with less time than is specified in the specific lesson curriculum, provided all content and completion standards are satisfactorily completed. The time stated in the lesson is the approximate minimum time that a student would need to meet the lesson objective and completion standards; not absolute required times. The lesson time could be slightly more or slightly less. The reduced hours must be included in other lessons to complete the total ground and flight time specified by category in the syllabus in order to satisfactorily complete the course.

At no time will a student be allowed to continue to the next stage without having successfully completed all of the lessons and the required tests or stage checks related to the completion of the previous stage.

Flight training for this course will be done in accordance with the FAA approved syllabus. Deviations from the syllabus within a stage due to student training requirements weather related factors or other items as necessary will be allowed as long as the following requirements are met:

- The deviation is approved by the Chief/Asst Chief Flight Instructor.
- A notation will be made in the student's training record as to the lesson covered and the reason for the deviation.
- The student will complete all syllabus requirements before a graduation certificate is issued.

To satisfactorily complete the course of training the student must meet all course objectives and completion standards. The student must complete the required ground training and pass the FAA Instrument Rating Airplane Knowledge test prior to the completion of flight training.

**EXPECTED ACCOMPLISHMENTS & STANDARDS:** To satisfactorily complete each flight stage you must complete the lessons in that stage and pass the end of stage check. Each lesson lists specific objectives and standards of completion.

**CHECKS & TESTS:** The flight training portion of the syllabus contains a quiz at the end of Stage VI. Stages VII, VIII and IX have a quiz and stage check flight. The stage checks will be administered by the Chief/Assistant Chief Instructor or check instructor approved by the FSDO. The stage IX check is the end of course stage check which will be equal in scope, depth and difficulty to the practical test defined by the FAA Instrument Rating – Airplane Airman Certification Standards for addition of an Instrument Airplane Rating to a Private Pilot Certificate (with existing Airplane Single Engine Land Rating).

## **STUDYING MANEUVERS/PROCEDURES**

1. Refer to the maneuver in the Airplane Flying Handbook to learn how to do the maneuver/procedure as well as common errors when attempting to execute the maneuver/procedure.
2. Refer to the University of Oklahoma Supplementary Information for Flight Students and the POH to learn specifics of executing this maneuver in the PA28-181.
3. Refer to the Instrument Rating Airplane ACS to determine the standards to which you must accomplish the maneuver in order to earn your Instrument Rating certificate.

| FLIGHT LESSON TIME ALLOCATION TABLE |      |         |            |           |          |     |
|-------------------------------------|------|---------|------------|-----------|----------|-----|
| Lesson                              | Dual | Dual XC | Dual INST. | Dual AATD | Pre/Post | GI  |
| STAGE VI                            |      |         |            |           |          |     |
| 1                                   |      |         |            | 1.0       | 0.5      |     |
| 2                                   |      |         |            | 1.0       | 0.5      |     |
| 3                                   |      |         |            | 1.0       | 0.5      |     |
| 4                                   | 1.0  |         | 0.8        |           | 0.5      |     |
| 5                                   | 1.0  |         | 0.8        |           | 0.5      |     |
| 6 QUIZ                              |      |         |            |           |          | 1.0 |
| 7 STGCHK                            | 1.0  |         | 0.8        |           | 0.5      | 0.5 |
| STAGE VII                           |      |         |            |           |          |     |
| 1                                   |      |         |            | 1.0       | 0.5      |     |
| 2                                   |      |         |            | 1.0       | 0.5      |     |
| 3                                   |      |         |            | 1.0       | 0.5      |     |
| 4                                   |      |         |            | 1.0       | 0.5      |     |
| 5                                   | 1.0  |         | 0.8        |           | 0.5      |     |
| 6                                   | 1.0  |         | 0.8        |           | 0.5      |     |
| 7                                   |      |         |            | 1.0       | 0.5      |     |
| 8                                   |      |         |            | 1.0       | 0.5      |     |
| 9                                   | 1.0  |         | 0.8        |           | 0.5      |     |
| 10                                  | 1.0  |         | 0.8        |           | 0.5      |     |
| 11 QUIZ                             |      |         |            |           |          | 1.0 |
| 12 STGCHK                           | 1.0  |         | 0.8        |           | 0.5      | 0.5 |
| STAGE VIII                          |      |         |            |           |          |     |
| 1                                   |      |         |            | 1.0       | 0.5      |     |
| 2                                   |      |         |            | 1.0       | 0.5      |     |
| 3                                   | 1.0  |         | 0.8        |           | 0.5      |     |
| 4                                   | 1.0  |         | 0.8        |           | 0.5      |     |
| 5                                   |      |         |            | 1.0       | 0.5      |     |
| 6                                   |      |         |            | 1.0       | 0.5      |     |
| 7                                   | 1.0  |         | 0.8        |           | 0.5      |     |
| 8                                   | 1.0  |         | 0.8        |           | 0.5      |     |
| 9                                   | 1.0  |         | 0.8        |           | 0.5      |     |
| 10                                  | 1.0  |         | 0.8        |           | 0.5      |     |
| 11 QUIZ                             |      |         |            |           |          | 1.0 |
| 12 STGCHK                           | 1.0  |         | 0.8        |           | 0.5      | 0.5 |
| STAGE IX                            |      |         |            |           |          |     |
| 2                                   | 2.7  | 2.7     | 2.5        |           | 0.5      |     |
| 3                                   | 4.0  | 4.0     | 3.6        |           | 0.5      |     |
| 4                                   | 1.0  |         | 0.8        |           | 0.5      |     |
| 5                                   | 1.0  |         | 0.8        |           | 0.5      |     |
| 5                                   | 1.5  |         | 1.0        |           | 0.5      |     |
| 6 QUIZ                              |      |         |            |           |          | 1.0 |
| 7 EOC STGCHK                        | 1.5  |         | 1.3        |           | 0.5      | 1.5 |
| TOTAL                               | 26.7 | 6.7     | 22.0       | 13.0      | 17.0     | 7.0 |

**Flight Lesson Time Allocation Table (continued)**

**Dual = Flight Instruction in an Airplane**

**Solo = Student Solo Flight in an Airplane**

**Dual Night = Flight Instruction in an Airplane at Night**

**Dual XC = Cross Country Flight Instruction in an Airplane**

**Solo XC = Student Solo Cross Country Flight in an Airplane**

**Dual INST. = Instrument Flight Instruction in an Airplane**

**Dual AATD = Instrument Instruction in an Advanced Aviation Training Device**

**Pre/Post = Pre & Post Flight Instruction**

**GI= Ground Instruction**

# **UNIVERSITY OF OKLAHOMA**

## **STAGE VI**

### **STAGE OBJECTIVE**

The student will learn precise airplane attitude and airspeed control as well as recognize and recover from unusual flight attitudes by reference to instruments. They will also learn how to control the airplane in the event of loss of primary flight instrument indicators and learn how to determine airplane location and program/track routes of flight using the airplane navigation systems.

### **STAGE COMPLETION STANDARD**

At the completion of this stage the student will accomplish the tasks listed in the objectives. The student's knowledge will be evaluated by an end of stage written quiz. Each lesson lists specific tasks and completion standards for those tasks.















## **STAGE VII**

### **STAGE OBJECTIVE**

During this stage the student will continue to practice basic attitude instrument flying, gain greater proficiency in using VOR and GPS navigation systems and learning holding procedures.

### **STAGE COMPLETION STANDARD**

At the completion of this stage the student will accomplish the tasks listed in the objectives. The student's knowledge, skill and risk management will be evaluated by an end of stage written quiz and flight check. Each lesson lists specific tasks and completion standards for those tasks.

























## **STAGE VIII**

### **STAGE OBJECTIVE**

During this stage the student will learn how to program and execute precision and non-precision approaches from various navigation sources, including ILS/LOC, VOR and RNAV/GPS. The student will continue to practice holding procedures and flight by reference to instruments.

### **STAGE COMPLETION STANDARD**

At the completion of this stage the student will accomplish the tasks listed in the objectives. The student's knowledge, skill and risk management will be evaluated by an end of stage written quiz and flight check. Each lesson lists specific tasks and completion standards for those tasks.

Operational and Safety Considerations.

Circling Approaches. ATC will usually not permit an approach to an inactive runway with a circle to an active runway. Therefore, circling approaches will often have to be practiced at uncontrolled airports. The approach may have to be made opposite the direction of traffic taking off from the wind favored runway. Increased vigilance is required to avoid conflict with traffic.

Instructor Briefing for Arrival at the MAP in the Airplane: Only if the instructor says "Runway Environment in Sight" is the student allowed to transition to visual conditions. If the instructor says nothing the student will assume the runway environment is not in sight and execute the appropriate missed approach procedure.

























## **STAGE IX**

### **STAGE OBJECTIVE**

The purpose of stage IX is to introduce the student to IFR cross-country procedures and to increase the student's proficiency to the level required of an instrument rated pilot.

### **STAGE COMPLETION STANDARD**

At the completion of Stage IX, the student must be able to demonstrate all IFR flight maneuvers and procedures at the proficiency level of an instrument rated pilot, as outlined in the current FAA Instrument Rating – Airplane Airman Certification Standards.

| Dual | Solo | Dual Night | Dual XC | Solo XC | Dual Inst. | Night LD. | AATD | Pre Post | GI |
|------|------|------------|---------|---------|------------|-----------|------|----------|----|
| 2.7  |      |            | 2.7     |         | 2.5        |           |      | 0.5      |    |

## STAGE IX FLIGHT LESSON 1 DUAL - CROSS COUNTRY - INSTRUMENT

### LESSON OBJECTIVE:

The student will plan and conduct an IFR cross country flight to a destination greater than 50 nautical miles from the departure airport. The student will learn IFR departure, enroute and arrival procedures.

### CONTENT:

#### Lesson Review

- ☐ Instrument Approaches
- ☐ Flight Director Usage
- ☐ Autopilot Usage

#### Lesson Introduction

- ☐ Risk Management Associated with Instrument Cross Country Procedures
- ☐ Pilot Qualifications
- ☐ Weather Information
- ☐ Cross Country Flight Planning
- ☐ Filing an IFR Cross Country Flight Plan
- ☐ ATC Cross Country Clearance
- ☐ Departure Procedures
- ☐ Enroute Procedures
- ☐ Arrival Procedures
- ☐ Emergency Operations – Loss of Communications
- ☐ Aircraft Systems Related to IFR Operations – Deice/Anti-Ice Equipment

### COMPLETION STANDARDS:

Risk Management: In a scenario provided by the instructor, identify a hazard associated with IFR cross country flight, the associated risk and course of action to deal with the risk. Flight Director: Demonstrate proper flight director usage during all phases of flight. Autopilot Usage: Demonstrate autopilot usage to ease workload during all phases of flight. Use the autopilot to execute one instrument approach.

Instrument Approaches: Execute at least one precision and one non-precision approach procedure to the standards of the Instrument Rating - Airplane ACS.

Pilot Qualifications: In a scenario provided by the instructor, determine if a pilot is current to make the flight and if not what actions are required to regain currency.

Weather Information: Obtain a standard weather briefing, determine weather hazards that could impact the flight, determine if destination alternates is required.

Cross Country Flight Planning: Prepare a cross country flight plan using correct performance data for the airplane. Determine if the airplane can meet climb performance required by departure and/or obstacle avoidance procedures. Correctly compute magnetic headings, estimated time enroute to primary destination and alternate (if required), fuel usage and whether fuel remaining meets minimum fuel reserve requirements.

IFR Flight Plan: Correctly file an IFR Flight Plan. ATC Cross Country Clearance: Correctly request, write down and read back and ATC IFR cross country clearance. Explain additional information provided by ATC if departure is from an uncontrolled airport. Load the route of flight into the GPS Navigator.

Departure Procedure: Execute at least one departure procedure to the standards of the Instrument Rating Airplane ACS. Enroute Procedures: Use Flight Information Broadcast (FIS-B) to monitor weather along the route of flight. Contact AFSS to update weather information. In a scenario provided by the instructor determine if a report to ATC is required and simulate making the report. Arrival Procedure: Execute at least one arrival procedure to the standards of the Instrument Rating Airplane ACS.

Loss of Communications: In a scenario provided by the instructor to determine the correct course of action in the event communication with ATC is lost.

Aircraft Systems Related to IFR Operations: In a scenario provided by the instructor, determine suitable course of action for inadvertent icing encounter. Simulate activation of available deice/anti-ice equipment on the airplane

### INSTRUCTOR NOTES:

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| Dual | Solo | Dual Night | Dual XC | Solo XC | Dual Inst. | Night LD. | AATD | Pre Post | GI  |
|------|------|------------|---------|---------|------------|-----------|------|----------|-----|
| 1.5  |      |            |         |         | 1.3        |           |      | 0.5      | 1.5 |

## STAGE IX FLIGHT LESSON 7 EOC-STAGECHECK

### LESSON OBJECTIVE:

The student will demonstrate satisfactory knowledge, risk management and skills in the tasks specified below from the Instrument Rating Airplane Airman Certification Standards. This lesson is the final stage check conducted by the Chief or Assistant Chief Flight Instructor or Check Instructor approved by the FSDO. This stage check must be equal in scope, depth and difficulty to the practical test prescribed by the current version of the Instrument Airplane Airman Certification Standards. It will be conducted using a plan of action to evaluate the following tasks. A minimum of one knowledge, on risk management and one skill criterion will be evaluated for each task. Prior to the test the evaluator will check for updates to the Instrument Rating Airplane Airman Certification Standards and incorporate any changes into the plan of action.

### PRE-TEST PLANNING:

The evaluator will check for updates to the Airman Certification Standards. Any changes will be incorporated into the evaluation. The evaluator will list the ACS codes missed on the knowledge test and annotate these codes on the KN or RM line for each task or groups of tasks in the ground portion of the lesson plan. These items must be evaluated as part of the practical test.

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### CONTENT:

Cross Country Flight Scenario. The applicant will plan an instrument cross country flight from OUN to an airport outside of the OKC area into Class C or B airspace. The applicant will use real world weather in the flight planning process. In both the ground and flight portions of the test the evaluator will present the applicant with different situations within the scenario (weather, equipment failure, ATC requests, medical issues etc.) In the process of demonstrating the KN, RM and SK to deal with these situations as many of the tasks as possible will be evaluated. Any remaining tasks will be evaluated outside the context of the scenario. In some cases tasks are grouped together to facilitate evaluation as part of a scenario. The evaluator will make note of unsatisfactory performance on the KN, RM or SK lines as appropriate.

### GROUND PORTION OF PRACTICAL TEST

All SK elements must be evaluated. At least one KN and one RM element from each task must be evaluated. If an element was missed on the knowledge test evaluation of this element may count as the one element to be evaluated. At the evaluator's discretion more than one element may be evaluated.

- ☐ AOI: Preflight Preparation
  - ☐ Pilot Qualifications – AOI, Task A
  - ☐ Weather Information – AOI, Task B
  - ☐ Cross Country Flight Planning – AOI, Task C
  - ☐ AOII: Preflight Procedures
  - ☐ Aircraft Systems Related to IFR Operations – AOII, Task A
- ☐ Aircraft Flight Instruments and Navigation Systems – AOII, Task B
  - ☐ Instrument Flight Deck Check – AOII, Task C
- ☐ AOIII: Air Traffic Control (ATC) Clearances and Procedures
  - ☐ Compliance with Air Traffic Control Clearances – AOIII, Task A
  - ☐ Holding Procedures – AOIII, Task B
- ☐ AOIV: Flight by Reference to Instruments
  - ☐ Instrument Flight – AOIV, Task A
  - ☐ Recovery from Unusual Attitudes – AOIV, Task B

- ☐ AOV: Navigation Systems
  - ☐ Intercepting and Tracking Navigational Systems and Arcs – AOV, Task A
  - ☐ Departure, Enroute and Arrival Procedures – AOV, Task B
- ☐ AОВI: Instrument Approach Procedures
  - ☐ Non-Precision Approach – AОВI Task A
  - ☐ Precision Approach – AO VI Task B
  - ☐ Missed Approach – AОВI Task C
  - ☐ Circling Approach – AO VI Task D
  - ☐ Landing from an Instrument Approach - AОВI Task E
- ☐ AОВII: Emergency Operations
  - ☐ Loss of Communications – AОВII Task A
  - ☐ Approach with Loss of Primary Flight Instrument Indicators
  - ☐ AОВII Task D
- ☐ AОВIII: Postflight Procedures
  - ☐ Checking Instruments and Equipment – AОВIII Task A

**COMPLETION STANDARDS:**

Demonstrate proficiency in accordance with the Instrument Rating - Airplane ACS.

**INSTRUCTOR NOTES:**

[illegible]