



FLIGHT INSTRUCTOR INSTRUMENT FLIGHT SYLLABUS

Part 61

Version 1.0

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About This Syllabus

Course Objective:

The objective of this course is to give the CFII Applicant the necessary skill, knowledge, and experience required to obtain a Certificated Flight Instructor-Instrument Certification with an Airplane category and Single-Engine Land Class rating.

Prerequisites:

The student must hold at least a second-class medical certificate, a Certificated Flight Instructor Certificate with an Airplane category and Single Engine Land class rating, must be able to read, speak, write, and understand the English language, and must be a US Citizen with valid proof of citizenship or an alien that has gone through the Alien Flight Student Program.

Experience Requirements

Part 61: 10 hours of Flight Training

Certificated Flight Instructor Certificate Course

This syllabus is comprised of flight training only. It satisfies the need for aeronautical skills required to earn the Certificated Flight Instructor Certificate. This course is designed to meet all part 61 requirements, therefore not all lessons need to be completed but it is recommended they are, to receive the proper training towards this rating.

The syllabus is comprised of two stages. Each stage contains teaching modules, a stage check, and an optional review. Lessons should be conducted in the order they appear; however, it is permissible to conduct lessons inside the current stage outside of order. Lessons may be conducted out of the current stage with Chief Flight Instructor approval.

Aviation Training Devices (ATD)

Any lesson (full or partial) may be completed in an ATD though it is recommended that maximum possible time be completed in an airplane.

Modules

Each module must be completed in full except for the optional reviews. In the case that a task may not be performed in an airplane the simulator may be used. In addition, the Chief Flight Instructor or his/her designee may deem items within a lesson as not required to be completed provided adequate reason is given.

Only those modules marked with an asterisk must be completed. The stage one stage check and optional reviews are not required to complete the course.

Testing Procedures

At the end of each stage, a stage check must be accomplished. The stage check will be conducted by the Chief Flight Instructor, Assistant Chief Flight Instructor, or a Check Instructor. The stage check grading scale follows the maneuver grading scale, except the minimum passing grade for each stage check is progressively raised to ensure that learning progression has occurred. The maneuver grade scale and stage check grading scale can be found in this syllabus.

Training Standards

Training standards are based on the *Certificated Flight Instructor Practical Test Standards*. Module completion standards become progressively harder throughout the syllabus in order to refine the student's skill, knowledge, and experience to meet PTS Standards.

Maneuver Grading Scale

NG – Not Graded

The task or maneuver was not graded because it was not performed

1 – Describe/Explain

The student was able to partially describe the physical aspects of the maneuver or task. The student required instructor assistance to manipulate the aircraft controls in the proper manner.

2 - Develop (Lowest Passing Grade)

The student was able to successfully communicate the procedures of the task or maneuver as well as understand the concepts that apply. The student required instructor assistance to manipulate the aircraft controls in the proper manner.

3 - Improve

The student was able to improve their physical skills in the task or maneuver. The student required assistance verbally or physically from the flight instructor to successfully complete the maneuver.

4 - Practice

The student was able to practice the task or maneuver with only verbal assistance from the flight instructor.

5 - Perform

The student was able to execute the task or maneuver with no instructor assistance and within the module completion standard.

6 - At Standards

The student was able to execute the task or maneuver with no instructor assistance and met or exceeded the ACS standards.

NR - Not Required

The task or maneuver was not required to be completed in the lesson. This is only to be used with Chief Flight Instructor or his/her designee's approval or at the end of the course for optional review that were not necessary for the student to complete.

Stage Check Grading Scale

For the stage checks, the same grading scale will be used, however the lowest passing grade to complete the stage check will be raised.

Stage One: the student must achieve at least a 5 on each task or maneuver.

Stage Two, the student must achieve at least a 6 on each task or maneuver.

CFII Rating Minimum Course Hour

Page	Lesson	Dual Instrument Flight	Dual Instrument Cross Country	Completed
8	Stage 1	5.6 (7*)		
9	Module 1	1.4		
9	Module 2	1.4		
10	Module 3	1.4		
10	Stage Check	1.4		
11	Review*	1.4*		
12	Stage 2	6 (7.4*)		
13	Module 1	1.8	1.8	
13	Module 2	1.4		
14	Module 3	1.4		
14	Stage Check	1.4		
15	Review*	1.4*		
	Totals	11.6 (14.4*)	1.8	

Part 61 Compliance

List and location of aeronautical flight tasks required for Part 61 compliance.

Part 61 – Flight Training		Location in Syllabus
1	Receive appropriate instruction from an Authorized Instructor	Stages 1-2
2	Dual Flight instruction from an instrument instructor that includes the subject areas in 14 CFR Part 61.187 (b)(c).	Stage 1-2
2(a)	(i) Fundamentals of instructing; (ii) Technical subject areas; (iii) Preflight preparation; (iv) Preflight lesson on a maneuver to be performed in flight; (v) Air traffic control clearances and procedures; (vi) Flight by reference to instruments; (vii) Navigation aids; (viii) Instrument approach procedures; (ix) Emergency operations; and (x) Postflight procedures.	Stage 1-2
3	Ground instruction from an instrument instructor that includes the subject areas in 14 CFR Part 61.185 (a)(3)	
3(a)	The aeronautical knowledge areas for the instrument rating applicable to the category for which instrument flight instructor privileges are sought. Part 61.65 (b)(1-10)	
3(b)	(1) Federal Aviation Regulations of this chapter that apply to flight operations under IFR; (2) Appropriate information that applies to flight operations under IFR in the "Aeronautical Information Manual;" (3) Air traffic control system and procedures for instrument flight operations; (4) IFR navigation and approaches by use of navigation systems; (5) Use of IFR en route and instrument approach procedure charts; (6) Procurement and use of aviation weather reports and forecasts and the elements of forecasting weather trends based on that information and personal observation of weather conditions; (7) Safe and efficient operation of aircraft under instrument flight rules and conditions; (8) Recognition of critical weather situations and windshear avoidance; (9) Aeronautical decision making and judgment; and (10) Crew resource management, including crew communication and coordination.	

Stage 1- BAIF, Instrument Approach Procedures, Missed Procedures and Holding

Objective

The purpose of this stage is to allow the CFII applicant to become acquainted with basic attitude instrument flying from the right seat of the aircraft. The pilot will gain an understanding of how to teach an instrument student basic attitude instrument flying, basic instrument approaches and holding. They will also gain experience flying on instruments from the right seat.

Completion Standards

Stage One is complete when the CFII applicant has successfully achieved the objectives of each module and can, at minimum, describe and fly the procedures for each portion of flight covered.

Flight Training

- Checklist Usage
- Preflight Inspection
- Instrument Cockpit Check
- Four Fundamentals
- Basic Instrument Flight
- Slow Flight
- Unusual Attitudes
- Instrument Approach Procedures
- Holding Procedures
- Missed Approach Procedures
- Postflight Procedures

Stage 1/ Module 1

Arrow or Autopilot Recommended **Flight Training (1.4 Hours)**

Module Objective:

To have the CFII applicant gain an understanding of the strategies for teaching a student how to control the airplane under simulated instrument conditions in climbs, descents, turns, and straight-and-level flight.

Content

Teach

- Checklist Usage
- Preflight Inspection
- Instrument Cockpit Check
- Climbs
- Level Off from Climb
- Straight-and-Level-Flight
- Standard Rate Turns
- Change of Airspeed in Level Flight
- Descents
- Level Off from Descents
- Constant Airspeed Climbs and Descents
- Steep Turns
- Slow Flight
- VOR Approach
- Postflight Procedures

Completion Standards:

When the CFII Applicant demonstrates the ability to fly within 150 feet, airspeed within 15 Knots, bank angle within 15 degrees and heading within 15 degrees, the module is complete

Stage 1/ Module 2

Arrow or Autopilot Recommended **Flight Training (1.4 Hours)**

Module Objective:

For the CFII applicant to become proficient in how to teach with determining a location from a VOR and be introduce teaching standard holding patterns.

Content

Review

- Checklist Usage
- Preflight Inspection
- Instrument Cockpit Check
- IFR Clearance
- Determining a Radial from the VOR
- Tracking a Radial
- Postflight Procedures

Teach

- DME Hold from a VOR
- DME Arc (Suggested)
- Determining Hold Entries
- ILS Approach

Completion Standards:

When the CFII Applicant demonstrates the ability to fly within 150 feet, airspeed within 15 Knots, bank angle within 15 degrees and heading within 15 degrees, the module is complete.

Stage 1/ Module 3

Arrow or Autopilot Recommended **Flight Training (1.4 Hours)**

Module Objective:

For the CFII applicant to gain experience teaching RNAV approaches and continue to develop their skills teaching VOR approaches and holds.

Content

Review

- Checklist Usage
- Preflight Inspection
- Instrument Cockpit Check
- Unusual Attitudes
- VOR Approach
- Holding Procedures (All Entries)
- Missed Approaches
- Circle to Land
- Postflight Procedures

Teach

- GPS Navigation
- RNAV Approach

Completion Standards:

When the CFII Applicant demonstrates the ability to fly within 100 feet, airspeed within 10 Knots, bank angle within 5 degrees and heading within 10 degrees, and less than $\frac{3}{4}$ scale deflection of vertical or lateral guidance the module is complete.

Stage 1/ Stage Check

Arrow or Autopilot Recommended **Flight Training (1.4 Hours)**

Module Objective:

For the CFII Applicant to become proficient in teaching and flying all three types of approaches covered thus far.

Content

Review

- Checklist Usage
- Preflight Inspection
- Instrument Cockpit Check
- Unusual Attitudes
- ILS Approach
- RNAV Approach
- VOR Approach
- Holding Procedures (All Entries)
- Missed Approaches
- Postflight Procedures

Completion Standards:

When the CFII Applicant demonstrates the ability to fly within 100 feet, airspeed within 10 Knots, bank angle within 5 degrees and heading within 10 degrees, and less than $\frac{3}{4}$ scale deflection of vertical or lateral guidance the module is complete.

Stage 1/ Optional Review

Arrow or Autopilot Recommended **Flight Training (1.4 Hours)**

Module Objective:

For the CFII Applicant to become proficient in teaching and flying all three types of approaches covered thus far.

Content

Review

- Checklist Usage
- Preflight Inspection
- Instrument Cockpit Check
- Unusual Attitudes
- ILS Approach
- RNAV Approach
- VOR Approach
- Holding Procedures (All Entries)
- Missed Approaches
- Postflight Procedures

Completion Standards:

When the CFII Applicant demonstrates the ability to fly within 100 feet, airspeed within 10 Knots, bank angle within 5 degrees and heading within 10 degrees, and less than $\frac{3}{4}$ scale deflection of vertical or lateral guidance the module is complete.

Stage 2 – Approaches, Missed Procedures and Holding

Objective

The purpose of this stage is to allow the CFII applicant to become proficient in teaching and flying approaches, missed, and holding procedures from the right seat of the aircraft. The pilot will hone their skills in teaching a new instrument student how to fly the procedures contained in this stage.

Completion Standards

Stage Two is complete when the CFII applicant has successfully achieved the objectives of each module and can, at minimum, describe, fly and teach the procedures for each portion of flight covered.

Flight Training

- Checklist Usage
- Preflight Inspection
- Instrument Cockpit Check
- IFR Clearance
- Unusual Attitudes
- Partial Panel Approaches and Holding
- Instrument Approach Procedures
- Holding Procedures
- IFR Cross Country Procedures
- Filing/Using IFR Flight Plan
- OBS Holds
- Loading a hold into GTN 750/650 G1000
- Missed Approach Procedures
- Postflight Procedures

Stage 2/ Module 1

Arrow or Autopilot Recommended
Flight Training (1.8 Hours)(Cross Country)

Module Objective:

For the CFII Applicant to become proficient in teaching all three Instrument Approach Procedures and Holding Procedures.

Content

Review

- Checklist Usage
- Preflight Inspection
- Instrument Cockpit Check
- IFR Clearance
- VOR Navigation
- VOR Approach
- ILS Approach
- RNAV Approach
- One Partial Panel Approach (Instructor Discretion on Type)
- Missed Approach Procedures
- One Circle to Land Approach (Instructor Discretion on Type)
- Postflight Procedures

Teach

- IFR Cross Country Procedures
- Filing/Using IFR Flight Plan

Completion Standards:

When the CFII Applicant demonstrates the ability to fly within 100 feet, airspeed within 10 Knots, bank angle within 5 degrees and heading within 10 degrees, and less than $\frac{3}{4}$ scale deflection of vertical or lateral guidance the module is complete.

Stage 2/ Module 2

Arrow or Autopilot Recommended
Flight Training (1.4 Hours)

Module Objective:

For the CFII Applicant to prepare to take the CFII Practical Exam.

Content

Review

- Checklist Usage
- Preflight Inspection
- Instrument Cockpit Check
- IFR Clearance
- VOR Navigation
- VOR Approach
- ILS Approach
- RNAV Approach
- One Partial Panel Approach (Instructor Discretion on Type)
- Missed Approach Procedures
- One Circle to Land Approach (Instructor Discretion on Type)
- Postflight Procedures

Teach

- OBS Holding Procedures
- Building a Hold in the GTN 750/650 and G1000

Completion Standards:

When the CFII Applicant demonstrates the ability to fly within 100 feet, airspeed within 10 Knots, bank angle within 5 degrees and heading within 10 degrees, and less than $\frac{3}{4}$ scale deflection of vertical or lateral guidance the module is complete.

Stage 2/ Module 3

Arrow or Autopilot Recommended **Flight Training (1.4 Hours)**

Module Objective:

For the CFII Applicant to prepare to take the CFII Practical Exam.

Content

Review

- Checklist Usage
- Preflight Inspection
- Instrument Cockpit Check
- IFR Clearance
- VOR Navigation
- VOR Approach
- ILS Approach
- RNAV Approach
- One Partial Panel Approach (Instructor Discretion on Type)
- Holding Procedures
- Missed Approach Procedures
- One Circle to Land Approach (Instructor Discretion on Type)
- Postflight Procedures

Completion Standards:

When the CFII Applicant demonstrates the ability to fly within 100 feet, airspeed within 10 Knots, bank angle within 5 degrees and heading within 10 degrees, and less than $\frac{3}{4}$ scale deflection of vertical or lateral guidance the module is complete.

Stage 2/ Stage Check

Arrow or Autopilot Recommended **Flight Training (1.4 Hours)**

Module Objective:

For the CFII Applicant to show they are prepared to take the CFII Practical Exam and prepared to teach Instrument Students.

Content

Review

- Checklist Usage
- Preflight Inspection
- Instrument Cockpit Check
- IFR Clearance
- Unusual Attitudes
- VOR Navigation
- VOR Approach
- ILS Approach
- RNAV Approach
- One Partial Panel Approach (Instructor Discretion on Type)
- Holding Procedures
- Missed Approach Procedures
- One Circle to Land Approach (Instructor Discretion on Type)
- Postflight Procedures

Completion Standards:

When the CFII Applicant demonstrates the ability to fly within 100 feet, airspeed within 10 Knots, bank angle within 5 degrees and heading within 10 degrees, and less than $\frac{3}{4}$ scale deflection of vertical or lateral guidance the module is complete.

Stage 2/ Optional Review

Arrow or Autopilot Recommended

Flight Training (1.4 Hours)

Module Objective:

For the CFII Applicant to show they are prepared to take the CFII Practical Exam and prepared to teach Instrument Students.

Content

Review

- Checklist Usage
- Preflight Inspection
- Instrument Cockpit Check
- IFR Clearance
- VOR Navigation
- VOR Approach
- ILS Approach
- RNAV Approach
- One Partial Panel Approach
(Instructor Discretion on Type)
- Holding Procedures
- Missed Approach Procedures
- One Circle to Land Approach
(Instructor Discretion on Type)
- Postflight Procedures

Completion Standards:

When the CFII Applicant demonstrates the ability to fly within 100 feet, airspeed within 10 Knots, bank angle within 5 degrees and heading within 10 degrees, and less than $\frac{3}{4}$ scale deflection of vertical or lateral guidance the module is complete.