UNIVERSITY OF OKLAHOMA COMMERCIAL PILOT (SECONDARY) (2341) FLIGHT TRAINING SYLLABUS 2025-AUG-15

PREREQUISITES FOR ENROLLMENT IN THE FLIGHT PORTION OF THE COMMERCIAL PILOT COURSE: You must hold a private pilot certificate with an airplane category and single engine land rating and a medical certificate valid for at least third class privileges prior to enrolling in the flight portion of this course. You must also have an instrument airplane rating, or be concurrently enrolled in the

University of Oklahoma Instrument Rating Course and earn your instrument airplane rating prior to completing this course.

COURSE OBJECTIVE: You will obtain the knowledge, skill and aeronautical experience to meet the requirements of 14 CFR, Section 141, Appendix D to earn a commercial pilot certificate with 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. Stage V, lessons one and two each must be a minimum of three hours duration. For the rest of the lessons, the time stated in the lesson is the approximate minimum time that a student would need to meet the lesson objectives and completion standards; not absolute required times. The lesson time could be slightly more or slightly less. These reduced hours must be included in other lessons to complete the total ground or flight time specified by category in the training course outline 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 F.A.A approved syllabus. Deviations from the syllabus 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 Commercial Pilot Airplane Knowledge test prior to the completion of flight training.

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

CHECKS & TESTS: The flight training portion of the syllabus contains a quiz and a stage check flight at the end of Stage IV, V and X. The stage checks will be administered by the Chief/Assistant Chief Flight Instructor or check instructor approved by the FSDO. The Stage X 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 Commercial Pilot – Airplane Airman Certification Standards.

STUDYING MANEUVERS

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

		I	FLIGHT LI	ESSON TI	ME ALLO	CATION T	ABLE			
Lesson	Dual	Solo	Dual Night	Solo Night	Dual XC	Solo XC	TAA	Dual INST.	Pre/Post	GI
•		•	•		STAGE V		•	•	•	
1	3.0				3.0			0.5	0.5	
2	3.0		3.0		3.0			0.5	0.5	
3		4.0				4.0			0.5	
4	2.0							1.5	0.5	
5		4.0				4.0			0.5	
6	2.0							1.5	0.5	
7	2.0						2.0	1.5	0.5	
8	3.0				3.0		3.0	2.5	0.5	
9		5.0				5.0			0.5	
10		5.0				5.0			0.5	
11		6.0				6.0			0.5	
12 QUIZ										0.5
13 STGCHK)	1.0							0.3	0.5	0.5
Totals	16.0	24.0	3.0		9.0	24.0	5.0	8.3	6.0	1.0

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

Upon Completion of stage III lesson 3 the student will have made three solo takeoffs & landings to a full stop (with each landing involving a flight in the traffic pattern) at an airport with an operating control tower.

Upon Completion of stage III lesson 4 the student will have made 10-night takeoffs & landings to a full stop (with each landing involving a flight in the traffic pattern) at an airport.

UNIVERSITY OF OKLAHOMA

STAGE V

STAGE OBJECTIVE

The objective of this stage is to broaden the student's knowledge of VFR cross-country during day and night operations and provide the skills necessary to operate safely during extended cross-country flights. The student will also be introduced to a basic overview of IFR flight operations.

STAGE COMPLETION STANDARD

At the completion of this stage of training, the student must be able to demonstrate the complete and accurate planning of VFR cross-country flights and the safe conduct of those flights using pilotage, dead reckoning, and radio navigation. Also, at the completion of this stage the student should have a basic understanding of IFR flight.

Dual	Solo	Dual Night	Dual XC	Solo XC	Dual Inst.	Night LD.	AATD	Pre Post	GI
MIN 3.0			3.0		0.5			0.5	
3.0			3.0		0.5			0.5	

STAGE V FLIGHT LESSON 1 <u>DUAL - CROSS COUNTRY</u>

LESSON OBJECTIVE:

This lesson is a review and evaluation of the student's cross-country skills in preparation for solo cross-country flights. The flight will be of at least 3-hour duration, a total straight line distance of more than 100 n.m. from the original point of departure. The flight will be conducted during the day.

CONTENT:

Lesson Inti

roduction
Па а а а
Cross-Country Ground Operations
☐ Cross-Country Flight Planning
Obtaining Weather Information
Cockpit Management
☐ Radio Communications and ATC Light Signals
■ Navigation
☐ VOR (IR)
GPS (IR)
☐ Pilotage
☐ Dead Reckoning
☐ Cruise Procedures
 Lost and Diversion Procedures
☐ Power Settings and Mixture Leaning
☐ Simulated Emergency Procedures
 System and Equipment Malfunctions
☐ Low Fuel Supply
☐ Lost Procedures

Turbulence
Adverse Weather
☐ Airframe and Powerplant Icing
☐ Planning to Alternate
☐ Emergency Descent
☐ Emergency Approach and Landing
☐ Unfamiliar Airports
☐ Traffic Patterns
☐ UNICOM-Equipped Field
☐ Tower-Controlled Field
Operations in Heavy Traffic
☐ CTAF Procedures
☐ Airport and Runway Marking and Lighting
☐ Full Panel Instrument
☐ Straight and Level
Climbs
Descents
☐ Standard-Rate Turns
☐ Use of Radar Vectors
☐ High Density Altitude Operations
☐ Radio Facility Shutdowns
COMPLETION STANDARDS:
This lesson is complete when the student performs the tasks above to the standards listed in the Commercial Pilot Airman Certification Standards and the Private Pilot Airman Certification Standards for the instrument tasks while making a cross country flight to and back from an airport more than 100 n.m from the point of departure. The flight will be made during the day.
INSTRUCTOR NOTES:

Dual	Solo	Dual Night	Dual XC	Solo XC	Dual Inst.	Night LD.	AATD	Pre Post	GI
3.0		3.0	3.0		0.5			0.5	
3.0		3.0	3.0		0.5			0.5	

STAGE V FLIGHT LESSON 2 <u>DUAL - CROSS COUNTRY - NIGHT</u>

LESSON OBJECTIVE:

During this lesson, the student will learn night cross-country procedures, including preflight planning, navigation, emergencies, and the use of unfamiliar airports. The flight will be of at least 3-hour duration, a total straight-line distance of more than 100 n.m. from the original point of departure, and occurring at night.

CONTENT:

Lesson Review

☐ Aeromedical Factors
☐ Simulated Emergency Procedures
☐ System and Equipment Malfunctions
☐ Emergency Descent
☐ Adverse Weather
☐ Turbulence
☐ Lost Procedures
☐ Low Fuel Supply
☐ Airframe and Powerplant Icing
☐ Airport and Runway Markings and Lighting
☐ Normal Takeoffs and Landings
☐ Full Panel Instrument
Straight and Level
☐ Climbs
Descents
☐ Standard-Rate Turns
Go-Around From Rejected (Balked) Landing

Lesson Introduction

☐ Nig	ht Cross-Country Ground Operations
_	☐ Cross-Country Flight Planning
	Obtaining Weather Information
	Cockpit Management
☐ Nig	ht Cross-Country Procedures
☐ Los	t and Diversion Procedures
☐ Nig	ht Navigation
	☐ VOR (IR)
	GPS (IR)
	☐ Pilotage
	☐ Dead Reckoning
☐ Unf	amiliar Airports

COMPLETION STANDARDS:

This lesson is complete when the student performs the tasks above to the standards listed in the Commercial Pilot Airman Certification Standards and the Private Pilot Airman Certification Standards for the instrument tasks while making a cross country flight to and back from an airport more than 100 n.m. from the point of departure. The flight will be made at night.

INSTRUCTOR NOTES:

Dual	Solo	Dual Night	Dual XC	Solo XC	Dual Inst.	Night LD.	AATD	Pre Post	GI
	MIN 3.7			3.7				0.5	
	4.0			4.0				0.5	

STAGE V FLIGHT LESSON 3 SOLO CROSS-COUNTRY

LESSON OBJECTIVE:

This and the following solo cross-country flights are provided to develop the student's cross-country proficiency and confidence. The flight will include a landing at a point more than 50 n.m. from the original departure point.

CONTENT:

Lesson Review

Cross-Country Ground Operations
☐ Preflight Planning
Cross-Country Flight Assigned by the Instructor
☐ Airport Operations (Tower and CTAF/Unicom)
☐ Dead Reckoning
☐ Pilotage
☐ VOR Navigation
GPS Navigation

COMPLETION STANDARDS:

The student will show added skill in cross-country planning by selecting optimum cruising altitudes and appropriate checkpoints for a flight with a landing at a point more than 50 n.m. from the original departure point. Additionally, fuel planning will be accurate and allow for an adequate reserve.

STUDENT NOTES:	

Dual	Solo	Dual Night	Dual XC	Solo XC	Dual Inst.	Night LD.	AATD	Pre Post	GI
MIN 1.7					1.5			0.5	
2.0					1.5			0.5	

Timed Turns to Magnetic Headings

☐ Magnetic Compass Turns☐ Power-Off Stalls (Imminent)☐ Power-On Stalls (Imminent)

The tasks will be performed to the standards of the Instrument Rating Airman Certification Standards with the following exceptions: Heading: +/- 15 degrees Altitude: +/- 200 feet Airspeed: +/- 15 knots STAGE V FLIGHT LESSON 4 DUAL LOCAL INSTRUMENT **LESSON OBJECTIVE: INSTRUCTOR NOTES:** This lesson reviews full panel attitude instrument flying to prepare the student for the later introduction of partial panel air work. CONTENT: Lesson Review Aircraft Flight Instruments and Navigation Equipment Full Panel Instrument Straight and Level ☐ Standard-Rate Turns Constant Airspeed Climbs Constant Airspeed Descents ☐ Maneuvering During Slow Flight Lesson Introduction Full Panel Instrument ☐ IFR Preflight Inspection Preflight Check of Instruments, Equipment, and Systems ☐ Instrument Cockpit check ☐ IFR Takeoff Preparations ☐ Change of Airspeed Steep Turns ☐ Instrument Takeoffs

Recovery from Unusual Flight Attitudes

COMPLETION STANDARDS:

7									
al	Solo	Dual Night	Dual XC	Solo XC	Dual Inst.	Night LD.	AATD	Pre Post	
	MIN 3.7			3.7				0.5	
	4.0			4.0				0.5	
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] Use o	of UNIC	COM Equ	uipped Ai	rports		

COMPLETION STANDARDS:

This lesson is complete when the student has conducted a solo cross-country to include a landing at a point more than 50 n.m. from the original departure point. The student should attempt to gain proficiency in the accurate tracking of selected VOR radials and the GPS course line.

Dual	Solo	Dual Night	Dual XC	Solo XC	Dual Inst.	Night LD.	AATD	Pre Post	GI
1.7					1.5			0.5	

STAGE V FLIGHT LESSON 6 DUAL INSTRUMENT **LESSON OBJECTIVE:** During this lesson the student will be introduced to VOR Orientation and GPS holding patterns. **CONTENT: Lesson Review** ☐ Full and Partial Panel Instrument ☐ Straight and Level ☐ Standard-Rate Turns ☐ Constant Rate Climbs ☐ Constant Airspeed Climbs ☐ Constant Rate Descents ☐ Constant Airspeed Descents Recovery from Unusual Flight Attitudes **Lesson Introduction** ☐ Full and Partial Panel Instrument ☐ VOR Accuracy Test ☐ VOR Radial Interception and Tracking ■ VOR Orientation ☐ GPS Holding

COMPLETION STANDARDS:

INSTRUCTOR NOTES:

The student will perform the tasks to the standards of the Instrument Rating Airman Certification Standards with the following exceptions: Headings will be maintained to +/- 15 degrees Altitudes will be maintained to +/- 200 feet Airspeed will be maintained to +/- 15 knots

INSTRUCTOR NOTE		
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Dual	Solo	Dual Night	Dual XC	Solo XC	Dual Inst.	Night LD.	TAA	Pre Post	GI
MIN 2.0					1.5		2.0	0.5	
2.0					1.5		2.0	0.5	

STAGE V FLIGHT LESSON 7 <u>DUAL INSTRUMENT - TAA</u>

LESSON OBJECTIVE:

This lesson introduces the student to non-precision instrument approach procedures and missed approach planning. It also introduces the student to the PFD and MFD displays in a Technically Advanced Aircraft while executing the tasks of this lesson

CONTENT:

Lesson Review	
	Full Panel Instrument
	☐ Straight and Level
	Constant Rate Climbs
	☐ Constant Airspeed Climbs
	☐ Constant Rate Descents
	☐ Constant Airspeed Descents
	☐ Standard-Rate Turns
	Systems and Equipment Failures
Lesson Introduc	etion
_	
	Non-Precison Approaches (VOR, GPS, LOC)
	Precision Approaches (ILS)
	Straight-In Approach Procedures
	Circling Approach Procedures
	Missed Approach Procedures
	Landing from a Straight-In or Circling Approach Procedure

COMPLETION STANDARDS:

INSTRUCTOR NOTES:

At the completion of this lesson, the student will be able to explain and use the information displayed on the approach charts, execute an instrument approach and missed approach procedure. Be able to interpret data presented by the PFD and MFD. The tasks will be completed to the standards of the Instrument Rating Airman certification standards with the following exceptions: Heading: +/- 15 degrees Altitude: +/- 200 feet Airspeed: +/- 15 knots Tracking of lateral and vertical courses will be to within less than a full deflection of the deviation indicators

Dual	Solo	Dual Night	Dual XC	Solo XC	Dual Inst.	Night LD.	TAA	Pre Post	GI
MIN 3.0			3.0		2.5		3.0	0.5	
3.0			3.0		2.5		3.0	0.5	

STAGE V FLIGHT LESSON 8 DUAL XC- INSTRUMENT TAA

LESSON OBJECTIVE:

During this lesson, the student will plan and conduct a short IFR cross-country flight. During the flight, the student will become familiar with IFR departure and arrival procedures. The student will also be introduced to the flight director and autopilot of a Technically Advanced Aircraft in execution of the tasks in this lesson.

CONTENT:	
Lesson Review	
	Holding VOR and GPS Navigation Precision and Non-Precision Approaches
Lesson Introduc	tion
	Filing an IFR Flight Plan Air Traffic Control Clearances Simulated Emergency Procedures IFR Cross-Country Flight Planning Obtaining Weather Information Aircraft Performance, Limitations, and Systems related to IFR Operation
	En route Navigation and Tracking Calculating ETEs and ETAs En route Course Changes

COMPLETION STANDARDS:

At the completion of this flight, the student will be able to explain the basic principles of IFR cross country flight including navigation and tracking along published airways. Additionally, the student will know the methods used to calculate ETAs and comply with course changes that may be issued by ATC or necessitated by en route weather. The student will also demonstrate the ability to program the flight director and use the autopilot in a Technically Advanced Aircraft. Headings, altitudes and airspeeds will be maintained to the standards of the Instrument Rating Airman Certification Standards. Use of the flight director to track lateral and vertical courses will be to within three quarters deflection of the deviation indicators.

INSTRUCTOR N	OTES:			
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Dual	Solo	Dual Night	Dual XC	Solo XC	Dual Inst.	Night LD.	AATD	Pre Post	GI
	MIN 4.7			4.7				0.5	
	5.0			5.0				0.5	
STAGE	V FLI	GHT LE	ESSON	9 <u>so</u>	LO CRO	OSS-CO	<u>UNTRY</u>		

LESSON OBJECTIVE:

During this lesson, the student will continue to practice cross-country planning and accurate flying. The flight will include a landing at a point more than 50 n.m. from the original departure point.

CONTENT:

Lesson Review

Cross-Country Ground Operations
☐ Preflight Planning
Cross-Country Flying Assigned by the Instructor
☐ Pilotage
☐ Dead Reckoning
☐ VOR Navigation
☐ GPS Navigation
☐ Use of Controlled and Uncontrolled Airports

COMPLETION STANDARDS:

This lesson is complete when the student has conducted a cross-country flight to include a landing at a point more than 50 n.m. from the original departure point. The student should attempt to increase proficiency by accurately adhering to the preplanned navigation log.

STUDENT NOTES:		
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Dual	Solo	Dual Night	Dual XC	Solo XC	Dual Inst.	Night LD.	AATD	Pre Post	GI
	MIN 4.7			4.7				0.5	
	5.0			5.0				0.5	
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COMPLETION STANDARDS:

This lesson is complete when the student has conducted a solo cross-country to include a landing more than 50 n.m. from the original departure point. The student should attempt to increase proficiency by accurately adhering to the pre-planned navigation leg.

☐ Use of Controlled and Uncontrolled Airports

☐ Cross-Country Flight Assigned by the Instructor

Pilotage

Dead ReckoningVOR NavigationGPS Navigation

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Dual	Solo	Dual Night	Dual XC	Solo XC	Dual Inst.	Night LD.	AATD	Pre Post	GI
	MIN 5.7			5.7				0.5	
	6.0			6.0				0.5	

STAGE V FLIGHT LESSON 11 SOLO CROSS-COUNTRY

LESSON OBJECTIVE:

The purpose of this cross-country is to build the student's experience and meet the long cross-country requirements. The flight must have landings at a minimum of three points and one of the segments must consist of a straight line distance more than 250 nautical miles.

CONTENT:

Lesson Review

Cross-Country Ground Operations
☐ Preflight Planning
☐ Cockpit Management
Cross-Country Flight Assigned by the Instructor
☐ Pilotage
☐ Dead Reckoning
☐ VOR Navigation
☐ GPS Navigation
☐ Use of Controlled and Uncontrolled Airports

COMPLETION STANDARDS:

This lesson is complete when the student has conducted a solo cross-country with landings at a minimum of three points, and one of the segments has a straight line distance of more than 250 nautical miles. During the preflight orientation and postflight evaluation, the student should display efficient use of applicable FAA publications, correct weather analysis, and accurate flight planning.

Dual	Solo	Solo Night	Dual XC	Solo XC	Dual Inst.	Night LD.	AATD	Pre Post	GI
									0.5
									0.5

STAGE V FLIGHT LESSON 12 QUIZ

LESSON OBJECTIVE:

The objective of this lesson is to test the student's knowledge of this stage through a quiz.

CONTENT:

The o	quiz	will	cover	the	foll	owing	areas:

Aircraft Weight and Balance
Cross Country Flight Planning
Weather Products/Services
Airspace
Instrument Approaches and Holding

COMPLETION STANDARDS:

This lesson is complete when the student scores a 70% or better. In addition, the instructor is responsible for reviewing those questions missed.

NSTRUCTOR			

Dual	Solo	Dual Night	Dual XC	Solo XC	Dual Inst.	Night LD.	AATD	Pre Post	GI
MIN 1.0					0.3			0.5	0.5
1.0					0.3			0.5	0.5

STAGE V FLIGHT LESSON 13 STAGE CHECK

LESSON OBJECTIVE:

The objective of this stage check is to test the student's understanding of VFR crosscountry procedures tested on bas

CONTENT

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iew	The stud Airman of the In
Cross-Country Ground Operations	
Preflight Planning	INSTRU
Cockpit Management	
☐ Cross-Country Flight	
☐ VOR Navigation (IR)	
GPS Navigation (IR)	
☐ Pilotage	
☐ Dead Reckoning	
☐ Cruise Procedures	
☐ Use of Unfamiliar Airports	
☐ Airport and Runway Markings and Lighting	
Radio Communications and ATC Light Signals	
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☐ Simul	ated Emergency Procedures
	Systems and Equipment Malfunctions
	Emergency Descent
	Low Fuel Supply
	Lost Procedures
	Diversion Procedures
	Turbulence
	Adverse Weather
	Airframe and Powerplant Icing
	Planning to an Alternate
	Radio and Instrument Failure
	Recovery From Unusual Attitudes
IPLETION STAN	DARDS:
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