



**COURSE OUTLINE : AT 113**  
**D Credit – Degree Applicable**  
**COURSE ID 001330**  
**Cyclical Review: September 2020**

**COURSE DISCIPLINE :** AT  
**COURSE NUMBER :** 113  
**COURSE TITLE (FULL) :** Private Pilot Laboratory II  
**COURSE TITLE (SHORT) :** Private Pilot Lab II

**CATALOG DESCRIPTION**

AT 113 is a flight training laboratory course intended to complete the student's preparation for the Federal Aviation Administration Private Pilot Certificate Oral and Practical Tests. Topics covered include: night flying techniques, short and soft field takeoffs and landings, navigation, emergency procedures, power on/off stalls, s-turns across a road, turns around a point, and instrument flight procedures.

Total Lecture Units: 0.00

Total Laboratory Units: 3.00

**Total Course Units: 3.00**

Total Lecture Hours: 0.00

Total Laboratory Hours: 162.00

Total Laboratory Hours To Be Arranged: 0.00

**Total Contact Hours: 162.00**

**Total Out-of-Class Hours: 0.00**

Prerequisite: AT 112 or equivalent.



**ENTRY STANDARDS**

	<b>Subject</b>	<b>Number</b>	<b>Title</b>	<b>Description</b>	<b>Include</b>
1	AT	112	Private Pilot Laboratory I	apply Federal Aviation Regulations (FAR) Parts 61 and 91 to flight planning;	Yes
2	AT	112	Private Pilot Laboratory I	articulate airspace rules and procedures for the airport where the student is receiving instruction;	Yes
3	AT	112	Private Pilot Laboratory I	explain the flight characteristics and operational limitations for the airplane make and model in which the student is receiving the training;	Yes
4	AT	112	Private Pilot Laboratory I	demonstrate proficiency in the procedures and maneuvers required for solo flight in the make and model airplane;	Yes
5	AT	112	Private Pilot Laboratory I	obtain a Federal Aviation Administration Student Pilot Certificate;	Yes
6	AT	112	Private Pilot Laboratory I	safely complete a first supervised solo flight.	Yes

**EXIT STANDARDS**

- 1 Demonstrate proficiency in pre-flight preparation and procedures;
- 2 Demonstrate proficiency in airport operations.
- 3 Perform takeoffs, landings and go-arounds including soft and short field, and during crosswinds.
- 4 Perform ground reference maneuvers.
- 5 Safely navigate the airplane to a destination.
- 6 Perform slow flight and stalls.
- 7 Perform basic instrument maneuvers.
- 8 Apply emergency procedures appropriate to all phases of flight.
- 9 Safely operate the airplane at night.
- 10 Demonstrate proficiency in post flight procedures.
- 11 pass the Federal Aviation Administration Private Pilot Certificate Oral and Practical Tests.

**STUDENT LEARNING OUTCOMES**

- 1 Plan, prepare and safely complete cross-country flight;
- 2 Apply emergency procedures and simulate an emergency landing;
- 3 Pass the Federal Aviation Administration Private Pilot Certificate Oral and Practical Tests



**COURSE CONTENT WITH INSTRUCTIONAL HOURS**

	Description	Lecture	Lab	Total Hours
1	Basic Instrument Review-Dual • Climbs • Steep turns • Descents • Straight-and-level • Slow flight • Stalls • Unusual attitude recovery • VOR interception and tracking • ASR approaches (emergency procedure)	8	0	8
2	Proficiency Maneuvers Review-Dual • Navigating to and from the practice area • Slow flight • Stalls (power-on, power-off, accelerated) • S-turns across a road • Turns around a point • Rectangular patterns • Emergencies and emergency landings • Review of instrument flying fundamentals • Return to airport and proper pattern entries	10	0	10
3	Proficiency Maneuvers • Slow flight • Stalls • S-turns across a road • Turns around a point • Rectangular patterns • Normal and cross wind takeoffs and landings	10	0	10
4	Specialized Takeoffs and Landings-Dual • Cross wind takeoffs and landings (review) • Short field takeoffs and landings • Soft field takeoffs and landings	10	0	10
5	Specialized Takeoffs and Landings-Solo • Cross wind takeoffs and landings • Short field takeoffs and landings • Soft field takeoffs and landings	10	0	10
6	Night Flying-Dual • Review of night flight physiology and aircraft/airport lighting • Night pre-flight inspections • Night taxi procedures • Night takeoffs and landings • Night navigation and night emergency procedures	10	0	10



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7	Cross Country Flight-Dual (WHP-IYK-WHP) <ul style="list-style-type: none"> <li>• Review planning</li> <li>• Weather briefing review</li> <li>• Flight plan procedures</li> <li>• Use of pilotage and dead reckoning</li> <li>• Unfamiliar airport recognition and orientation</li> </ul>	10	0	10
8	Cross Country Flight-Dual (WHP-SBA-WHP) <ul style="list-style-type: none"> <li>• Review planning/flight log preparation</li> <li>• Weather briefing review</li> <li>• Flight plan procedures</li> <li>• Use of pilotage, dead reckoning, and radio navigation</li> <li>• Unfamiliar airport recognition and orientation</li> </ul>	10	0	10
9	Cross Country Flight-Solo (WHP-SBA-WHP) <ul style="list-style-type: none"> <li>• Review planning/flight log</li> <li>• Weather briefing review</li> <li>• Flight plan review</li> <li>• Solo cross country flight</li> <li>• Debrief of flight</li> </ul>	10	0	10
10	Cross Country Flight-Solo (WHP-IYK-WHP) <ul style="list-style-type: none"> <li>• Review planning/flight log</li> <li>• Weather briefing review</li> <li>• Flight plan review</li> <li>• Solo cross country flight</li> <li>• Debrief of flight</li> </ul>	10	0	10
11	Night Cross Country Flight-Dual (WHP-CRQ-WHP) <ul style="list-style-type: none"> <li>• Review planning/flight log preparation</li> <li>• Weather briefing review</li> <li>• Flight plan procedures</li> <li>• Use of pilotage, dead reckoning, and radio navigation</li> <li>• Unfamiliar airport recognition and orientation</li> </ul>	10	0	10
12	Cross Country Flight-Solo (WHP-SBA-SBP-WHP) <ul style="list-style-type: none"> <li>• Review planning/flight log</li> <li>• Weather briefing review</li> <li>• Flight plan review</li> <li>• Solo cross country flight</li> <li>• Debrief of flight</li> </ul>	12	0	12
13	Proficiency Maneuvers Review (Check Ride Preparation)-Dual <ul style="list-style-type: none"> <li>• Navigating to and from the practice area</li> <li>• Slow flight</li> <li>• Stalls (power-on, power-off, accelerated)</li> <li>• S-turns across a road</li> <li>• Turns around a point</li> <li>• Rectangular patterns</li> <li>• Emergencies and emergency landings</li> <li>• Review of instrument flying fundamentals</li> </ul>	10	0	10



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14	Specialized Takeoffs and Landings (Check Ride Preparation)-Dual • Cross wind takeoffs and landings (review) • Short field takeoffs and landings • Soft field takeoffs and landings	8	0	8
15	Solo Practice as Directed by Instructor-Solo	8	0	8
16	Simulated Check Ride-Dual (Check Airman Instructor) • Pre-flight procedures • Starting, taxi, and run-up procedures • Normal takeoff and landing • Short field takeoff and landing • Soft field takeoff and landing • Simulated emergency landing • Slips • Go-arounds • Steep turns • S-turns across a road • Turns around a point • Slow flight • Stalls (power-on, power-off, accelerated) • Basic instrument flying • Recovery from unusual attitudes in simulated IMC	16	0	16
				<b>162</b>

**OUT OF CLASS ASSIGNMENTS**

- 1 homework reading assignments;
- 2 laboratory notebook assignments and daily journal.

**METHODS OF EVALUATION**

- 1 written examinations following each module;
- 2 successful completion of FAA private pilot certificate examination;
- 3 observation and evaluation during all phases of flight preparation and flight.

**METHODS OF INSTRUCTION**

- Lecture
- Laboratory
- Studio
- Discussion
- Multimedia
- Tutorial



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- Independent Study
- Collaboratory Learning
- Demonstration
- Field Activities (Trips)
- Guest Speakers
- Presentations

**TEXTBOOKS**

<b>Title</b>	<b>Type</b>	<b>Publisher</b>	<b>Edition</b>	<b>Medium</b>	<b>Author</b>	<b>IBSN</b>	<b>Date</b>
Private Pilot - Airplane, Airman Certification Standards	Required	Federal Aviation Administration		digital	Federal Aviation Administration	FAA-S-ACS-6B	2018
Private Pilot Oral Exam Guide	Required	Aviation Supplies & Academics	11	print	Hayes, Michael D.	978-1-61954-459-8	2017