AT119 : * Private Pilot Airplane Practical Test Preparation

General Information

Author:	• Curtis G Potter
Course Code (CB01) :	AT119
Course Title (CB02) :	* Private Pilot Airplane Practical Test Preparation
Department:	AT
Proposal Start:	Fall 2024
TOP Code (CB03) :	(3020.20) Piloting
CIP Code:	(49.0102) Airline/Commercial/Professional Pilot and Flight Crew.
SAM Code (CB09) :	Clearly Occupational
Distance Education Approved:	No
Will this course be taught asynchronously?:	No
Course Control Number (CB00) :	CCC000626426
Curriculum Committee Approval Date:	05/22/2024
Board of Trustees Approval Date:	07/16/2024
Last Cyclical Review Date:	05/22/2024
Course Description and Course Note:	AT 119 is a ground training course designed for the student who is receiving flight training toward the private pilot certificate (license) with an airplane single engine land rating. Students will study in more depth the concepts presented during ground and flight training and learn how to apply them in real-world situations. The course includes oral practice answering scenario-based questions to prepare the student for the oral portion of the FAA practical test for the private pilot airplane certificate.
Justification:	Mandatory Revision
Academic Career:	• Credit
Mode of Delivery:	
Author:	Curtis G Potter
Course Family:	

Academic Senate Discipline

Primary Discipline:	• Aviation (Flight, navigation, ground school, air traffic control)
Alternate Discipline:	No value
Alternate Discipline:	No value

Course Development

Basic Skill Status (CB08)

Course is not a basic skills course.

☐ Allow Students to Gain Credit by Exam/Challenge

Course Special Class Status (CB13)

Course is not a special class.

Pre-Collegiate Level (CB21)

Not applicable.

Grading Basis

- Grade with Pass / No-Pass Option

Course Support Course Status (CB26)

Course is not a support course

General Education and C-ID

General Education Status (CB25)

Not Applicable

Transferability

Not transferable

Transferability Status

Not transferable

Units and Hours

Summary

Minimum Credit Units (CB07)	2
Maximum Credit Units (CB06)	2
Total Course In-Class (Contact) Hours	36
Total Course Out-of-Class Hours	72
Total Student Learning Hours	108

Credit / Non-Credit Options

Course Type (CB04)

Credit - Not Degree Applicable

Noncredit Course Category (CB22)

Credit Course.

Noncredit Special Characteristics

No Value

Course Classification Code (CB11)

Credit Course.

Funding Agency Category (CB23)

Not Applicable.

☐ Cooperative Work Experience Education Status (CB10)

☐ Variable Credit Course

Weekly Student Hours

	In Class	Out of Class
Lecture Hours	2	4
Laboratory Hours	0	0
Studio Hours	0	0

Course Student Hours

Course Duration (Weeks)	18
Hours per unit divisor	0
Course In-Class (Contact) Hours	
Lecture	36
Laboratory	0
Studio	0

Total	36

Course Out-of-Class Hours

Lecture	72
Laboratory	0
Studio	0
Total	72

Time Commitment Notes for Students

No value

Units and Hours - Weekly Specialty Hours

Activity Name	Type	In Class	Out of Class
No Value	No Value	No Value	No Value

Pre-requisites, Co-requisites, Anti-requisites and Advisories

Advisory

AT120 - Private Pilot Ground School

Objectives

- Apply Federal Aviation Regulations to flight.
- Perform tasks of enroute communication procedures.
- Demonstrate knowledge of weather theory.
- Evaluate aviation weather information.
- Develop the skills of navigation, including radio, pilotage, and dead-reckoning.
- Plan a cross-country flight with an overall understanding of emergency procedures.

Entry Standards

Entry Standards

Course Limitations

Cross Listed or Equivalent Course

Specifications

Methods of Instruction

Methods of Instruction	Lecture
Methods of Instruction	Discussion
Methods of Instruction	Multimedia
Methods of Instruction	Independent Study
Methods of Instruction	Collaborative Learning
Methods of Instruction	Presentations

Out of Class Assignments

- Read and study the FAA materials referenced in the text
- Notes to capture key information from various FAA sources
- Written assignments (e.g. describing how knowledge should be applied in various piloting situations)

Methods of Evaluation	Rationale
Exam/Quiz/Test	Written examinations (e.g. quizzes, mid-term exam)
Activity (answering journal prompt, group activity)	Final oral examination that simulates what may be expected in the oral portion of the FAA practical test

Textbook Rationale

No Value

Textbooks

Author	Title	Publisher	Date	ISBN
Federal Aviation Administration	Airman Certification Standards: Private Pilot Airplane	Aviation Supplies & Academics, Inc.	2019	978-1-61954-903-6
Hayes, Michael D.	Private Pilot Oral Exam Guide	Aviation Supplies & Academics	2023	978-1-64425-302-1

Other Instructional Materials (i.e. OER, handouts)

Description	Private Pilot Airplane - Airman Certification Standards (FAA-S-ACS-6)
Author	Federal Aviation Administration
Citation	No value
Online Resource(s)	No value

Materials Fee

No value

Learning Outcomes and Objectives

Course Objectives

Create a cross-country navigation log including the considerations for a go/no-go decision.

Identify the important aspects of aeronautical decision making.

Demonstrate correlation of information from various resources and its application to new situations that have not been specifically considered before.

Explain how the Federal Aviation Administration (FAA) practical test will be conducted and articulate the applicant role in the oral portion of the practical test.

SLOs

Demonstrate preparation for the oral portion of the FAA practical test for private pilot airplane applicants. Expected Outcome Performance: 70.0

ILOs Core ILOs	Demonstrate depth of knowledge in a course, discipline, or vocation by applying practical knowledge, skills, abilities, theories, or methodologies to solve unique problems.
AT Pilot Training - Certificate	demonstrate an understanding of Federal Aviation Regulations.
	demonstrate practical skills required to pass FAA practical testing for the rating sought.
	demonstrate the skills required to successfully pass the FAA knowledge exam appropriate to the rating sought.
AT Pilot Training - A.S. Degree Major	demonstrate an understanding of Federal Aviation Regulations.
	demonstrate practical skills required to pass FAA practical testing for the rating sought.
	demonstrate the skills required to successfully pass the FAA knowledge exam appropriate to the rating sought.

Discuss how the concepts can be correlated to allow the pilot to safely manage unexpected or emergency situations that may occur in flight. Expected Outcome Performance: 70.0

ILOs Core ILOs	Demonstrate depth of knowledge in a course, discipline, or vocation by applying practical knowledge, skills, abilities, theories, or methodologies to solve unique problems.

AT Pilot Training - Certificate	demonstrate an understanding of Federal Aviation Regulations.
	demonstrate practical skills required to pass FAA practical testing for the rating sought.
	demonstrate the skills required to successfully pass the FAA knowledge exam appropriate to the rating sought.
AT Pilot Training - A.S. Degree Major	demonstrate an understanding of Federal Aviation Regulations.
	demonstrate practical skills required to pass FAA practical testing for the rating sought.
	demonstrate the skills required to successfully pass the FAA knowledge exam appropriate to the rating sought.

Explain the concepts required for the safe operation of an airplane and how they are applied in practical situations.

Expected Outcome Performance: 70.0

ILOs Core ILOs	Demonstrate depth of knowledge in a course, discipline, or vocation by applying practical knowledge, skills, abilities, theories, or methodologies to solve unique problems.
AT Pilot Training - A.S. Degree Major	demonstrate practical skills required to pass FAA practical testing for the rating sought.
	demonstrate the skills required to successfully pass the FAA knowledge exam appropriate to the rating sought.
AT Pilot Training - Certificate	demonstrate practical skills required to pass FAA practical testing for the rating sought.
	demonstrate the skills required to successfully pass the FAA knowledge exam appropriate to the rating sought.

Additional SLO Information

Does this proposal include revisions that might improve student attainment of course learning outcomes?

No

Is this proposal submitted in response to learning outcomes assessment data?

No

If yes was selected in either of the above questions for learning outcomes, explain and attach evidence of discussions about learning outcomes.

No Value

SLO Evidence

No Value

Course Content

Lecture Content

Preflight Preparation (12 hours)

- Pilot Qualifications
- Airworthiness Requirements
- Weather Information
- Cross-Country Flight Planning
- National Airspace System
- Performance and Limitations
- Operation of Systems
- Human Factors

Preflight Procedures (2 hours)

- Preflight assessment
- Cockpit management
- Engine starting
- Taxiing

- Before takeoff checklist

Airport Operations (2 hours)
- Communications and light gun signals
- Airport lighting, signs, and markings
- Traffic patterns

Takeoffs, Landings, and Go-arounds (2 hours)
- Normal takeoff and climb
- Normal approach and landing
- Soft-field takeoff and climb
- Soft-field approach and landing
- Short-field takeoff and maximum performance climb
- Short-field approach and landing
- Forward slip to a landing
- Go-around/rejected landing

Performance and Ground Reference Maneuvers (2 hours)
- Steep turns
- Ground reference maneuvers

Navigation (4 hours)
- Pilotage and dead reckoning
- Navigation systems
- Air Traffic Control and radar services
- Diversion to an alternate airport
- Lost procedures

Slow Flight and Stalls (2 hours)
- Maneuvering during slow flight
- Power-off stalls
- Power-on stalls
- Spin awareness

Basic Instrument Maneuvers (2 hours)
- Straight-and-level flight
- Constant airspeed climbs
- Constant airspeed descents
- Turns to a heading
- Recovery from unusual flight attitudes
- Radio communications, navigation systems and facilities, and radar services

Emergency Operations (4 hours)
- Emergency descent
- Emergency approach and landing
- Systems and equipment malfunctions and failures
- Emergency equipment and survival gear

Night Operations (2 hours)
- Night preparation
- Vision at night

Postflight Procedures (2 hours)
- After landing, parking, and securing

Total hours: 36

Additional Information

Is this course proposed for GCC Major or General Education Graduation requirement? If yes, indicate which requirement in the two areas provided below.

No

GCC Major Requirements

No Value

GCC General Education Graduation Requirements

No Value

Repeatability

Not Repeatable

Justification (if repeatable was chosen above)

No Value

Resources

Did you contact your departmental library liaison?

Yes

If yes, who is your departmental library liason?

Adina Lerner (Technology & Aviation, Visual & Performing Arts)

Did you contact the DEIA liaison?

Yes

Were there any DEIA changes made to this outline?

No

If yes, in what areas were these changes made:

No Value

Will any additional resources be needed for this course? (Click all that apply)

- No

If additional resources are needed, add a brief description and cost in the box provided.

No Value