



BSU Private Pilot Training Course Outline

Revision X

07/10/18

PRIVATE PILOT CERTIFICATION COURSE -ASEL-

Bridgewater State University holds Pilot School Certificate No. **LY8S311Q**

Bridgewater State University is an accredited four-year degree granting institution within the state of Massachusetts higher educational system. The base of operations/business address is 111 Harrington Hall, Bridgewater, MA 02325.

The Facilities Manual is Part 1 of the Training Course Outline and meets the requirements of 14 CFR Part 141.55 (c), subsections 1-5.

Ground and Flight Course Manuals are contained in Part 2 and meet the requirements of the Training Course Outline specified in 14 CFR 141.55 (c) 6-8.



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RECORD OF REVISIONS

REV. #	DATE	CONTENT	INITIAL
I	2/18/09	Updates facility briefing room locations, facility diagram, and adds Asst. Chief (Ground and Flight)	
II	6/2/09	Updates table of contents, removes Jeppesen references as required ground school course material.	
III	8/17/09	Increases level of performance on Stage I and II flight lessons to meet PTS. Increases level of performance on Stage III flight lessons to exceed PTS. Clarifies requirement for number of stall maneuvers on various lessons.	
IV	10/14/09	Lesson #4 introduces power on and power off stalls (VR/IR) and lessons #5 and #15 add review of these same tasks.	
V	9/20/10	Updates subject areas and tasks on ground lessons 1 – 3, 12, 14 – 16. Corrects grammatical errors in Stage I and Stage II lessons, lesson completion standards on lessons 8/9. Updates language throughout to reflect name change from Bridgewater State College to Bridgewater State University.	
VI	7/15/13	Moves AATD lessons from stage I to stage II. Updates lessons in all stages to increase emphasis on basic VFR airmanship, ADM.	
VII	8/5/13	Reduces number of stages in course to (2). Re-aligns ground lessons to more closely parallel flight lessons. Increases emphasis on airmanship and ADM.	
VIII	12/6/16	Converts all appropriate sections to Airman Certification Standards.	
IX	1/12/18	Change of Chief Instructor/Assistant Chief Instructor(s), addition of Redbird AATD.	
X	7/10/18	Changes to Lesson content and order, addition of CPTs, Addition of 3 mandatory ground lessons and 2 CPT/AATD lessons in Flight Course	

NOTE

After inserting a revision, enter the date the revision is to be effective, and place your initials in the appropriate column. The manual holder is responsible for maintaining current revisions

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PRIVATE PILOT CERTIFICATION COURSE -ASEL-

PART I

FACILITIES MANUAL

The Facilities Manual is Part 1 of the Training Course Outline and meets the requirements of 14 CFR Part 141.55 (c), subsections 1-5.

PART I

FACILITIES MANUAL

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Bridgewater State University Facility

The Bridgewater State University campus located in Bridgewater, Massachusetts, serves as the primary business address and administrative office for this course.

Academics

The academics facilities are located on the campus of Bridgewater State University, Harrington Hall, 95 Grove Street, Bridgewater, Massachusetts. Bridgewater State University may elect to conduct the academic ground courses for students at its' flight training facility, located at New Bedford Regional Airport, New Bedford, Massachusetts.

Classrooms

Academic classes will typically be conducted in Harrington Hall in two (2) classrooms located on the ground floor of the building. Classroom 001 measures 24' by 20' and can accommodate 24 students. Classroom 002 measures 35' by 20' and can accommodate 30 students. Both classrooms contain computerized projection equipment and dry erase boards. Other rooms may be available and assigned by the University as necessary.

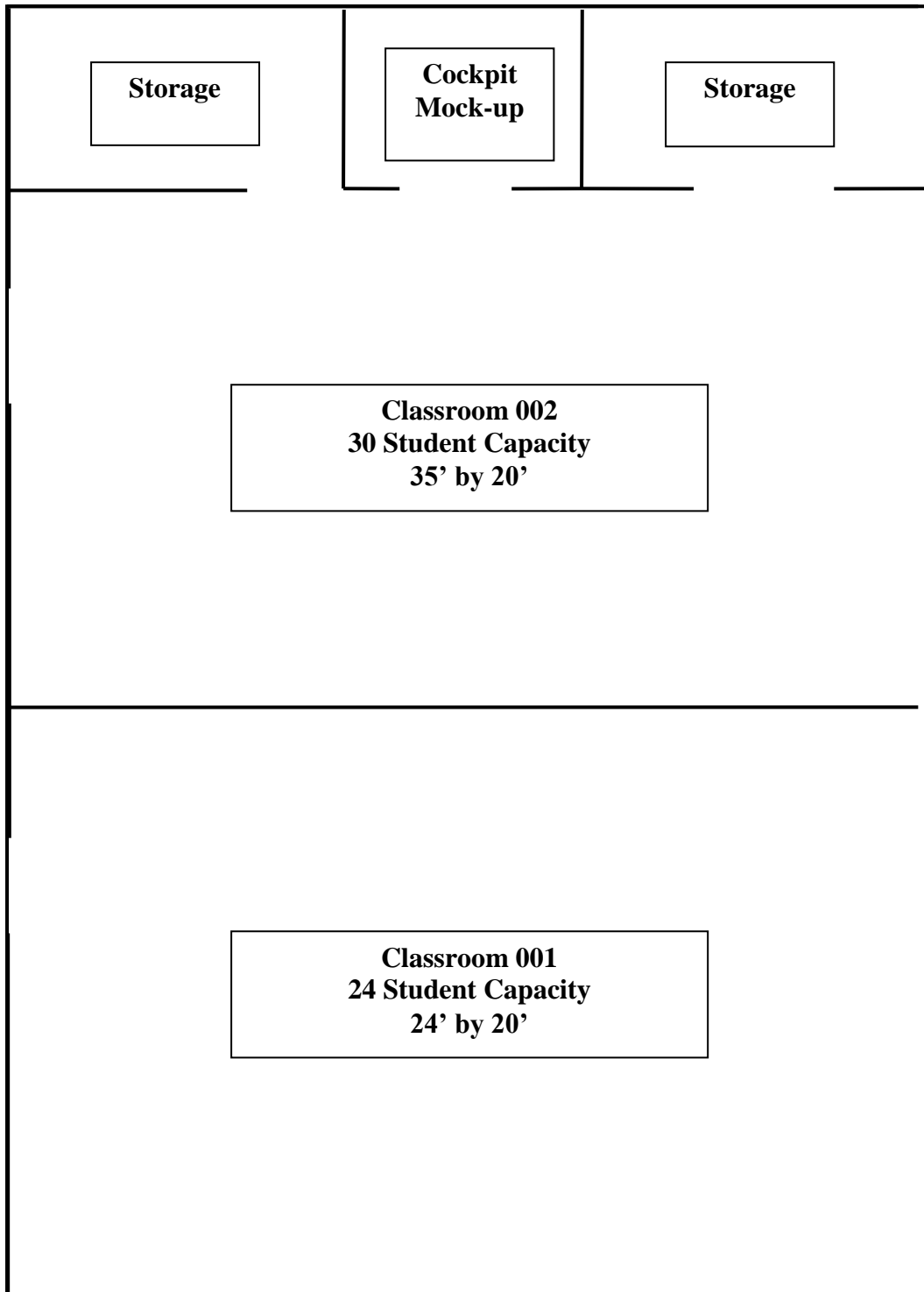
Ground Training Aids

- ⊕ Overhead projector with Audio/Visual capability
- ⊕ Computer terminal including internet access
- ⊕ Video projector with DVD capability
- ⊕ Ceiling-mounted video projector unit
- ⊕ Wall-mounted dry-erase board

NOTE

All classrooms and administrative areas comply with current local building, health and sanitation codes. All rooms are enclosed and easily accessible, and provide a clean instructional environment free from outside distractions.

Bridgewater State University Classroom Diagram



New Bedford (KEWB) Aviation Training Center

Bridgewater State University's Aviation Training Center, located at the New Bedford Regional Airport at 1852 Shawmut Avenue, North Dartmouth, MA 02747, is the central location for all flight training activity.

Aircraft

Bridgewater State University's flight training program may utilize two (2) aircraft for this course of training:

The Piper PA-28R Arrow is a four-place, single-engine, complex aircraft with dual flight controls. The aircraft is rated in the Normal category and certified for Day/Night VFR/IFR Operations. The aircraft meets the requirements of 14 CFR Part 141.39 and 141.75.

The Cessna 172 is a four-place, single-engine, non-complex aircraft with dual flight controls. The aircraft is rated in the Normal and Utility categories and is certified for Day/Night VFR/IFR Operations. The aircraft meets the requirements of 14 CFR Part 141.39 and 141.75.

Special equipment required for the course includes a VOR receiver, LOC and GS receivers, Transponder with Mode C, and GPS.

AATDs

Bridgewater State University's flight training program may utilize three (3) advanced aviation training devices for this course of training:

- 1) Elite Model RC - 1
- 2) Redbird Model LD, SD, FMX, MCX version 4.4

CPTs

Bridgewater State University's flight training program may utilize four (4) identical C-172R Cockpit Procedures Trainers (CPTs) for this course of training.

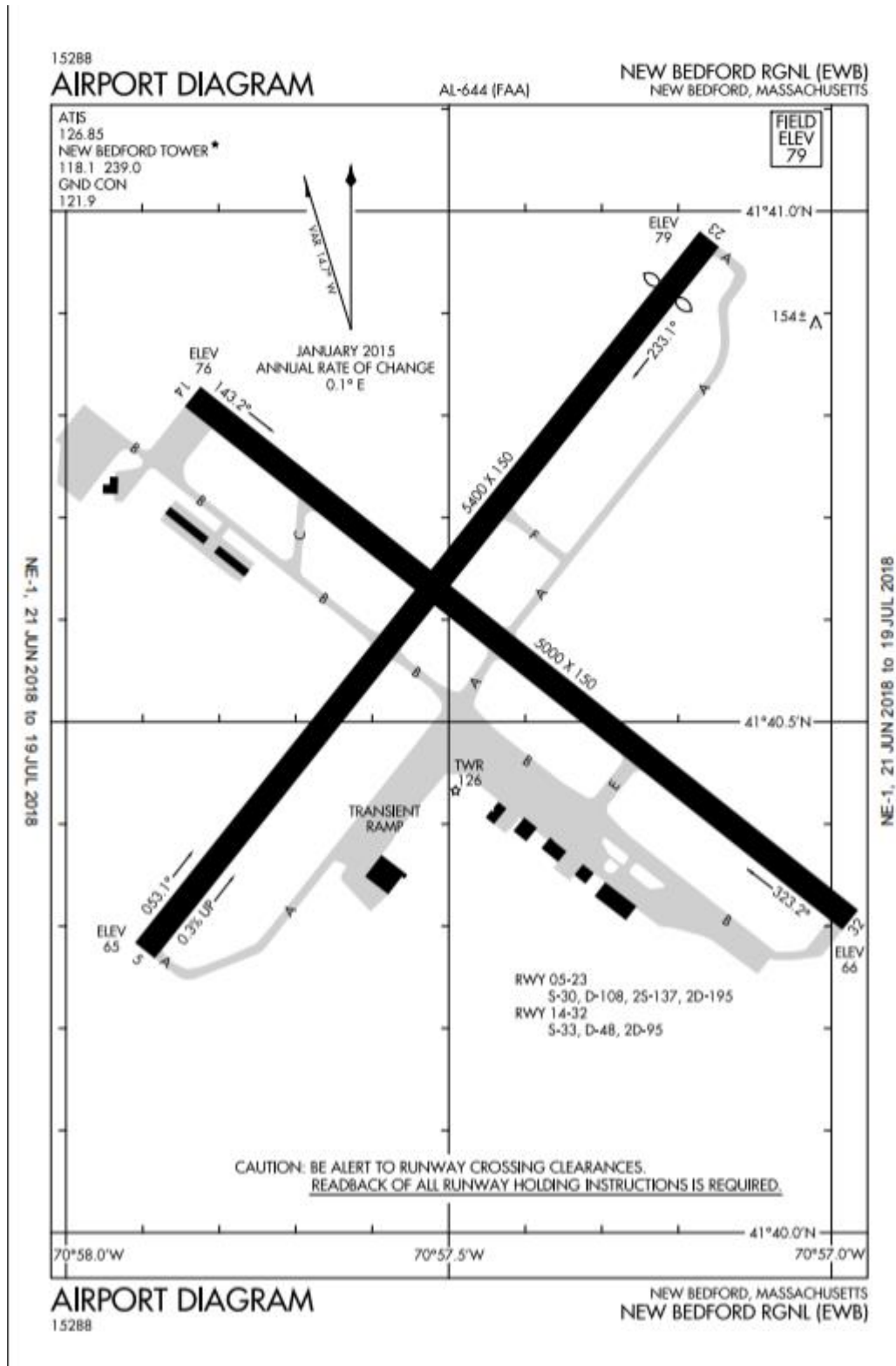
New Bedford Regional Airport

The New Bedford Regional Airport (KEWB) is the main flight training center for the Bridgewater State University aviation program. KEWB contains two (2) hard-surfaced runways and meets the requirements of 14 CFR Part 141.38 for both day and night flight operations. KEWB has an operational control tower that is staffed from 0700 – 2200 local time. The airport has operable ILS, LOC, LOC/BC, and GPS approaches. Maintenance service is available from 0700 – 1700 and on call during evening and night flight operations. Fuel service is available 0700 – 2000 daily, on call at other times.

Training Airports

All airports used for training operations meet the requirements of 14 CFR Part 141.38. Guidance for use of these airports is provided for flight instructors and students via the Approved Airports listing in the Bridgewater State University Aviation Operations Manual. The Chief Flight Instructor or his/her designee may approve the use of any public-use airport listed in the current Chart Supplement.

New Bedford Regional (EWB) Airport Diagram



Flight Briefing Area

The main flight briefing area is centrally located within the operations building and measures 22' by 33'. It is equipped with briefing tables, chairs, cubicles (equipped with dry erase boards), a computer-based weather information station that provides textual and graphic weather reports and forecasts, and a landline phone connecting to a FSS Briefer. The room can accommodate up to 40 persons. There is a partition between the briefing area and the AATD Rooms (described below) that when removed allows for a 44' by 33' space that can be used for large meetings.

AATD Rooms

The Single-Engine Advanced Aviation Training Devices are located in a room adjacent to the Flight Briefing Area. The room measures 22' by 16'. The multi-engine AATD is located in an adjacent 22' by 16' room.

Classroom Area

The classroom area is located at the southeast corner of the facility, and is accessible from either the main facility entrance or from the rear of the classroom on the rearward side of the building. The classroom measures 23' by 34' and accommodates up to 50 persons. The room is equipped with tables, chairs, and dry erase boards.

Administrative Offices

The facility contains multiple administrative offices. Measuring 9' by 11', 9' by 14', 12' by 18', 14' by 24', 16' by 22' or 18' by 24', each can accommodate (5) to (10) persons, respectively.

Ground Training Aids

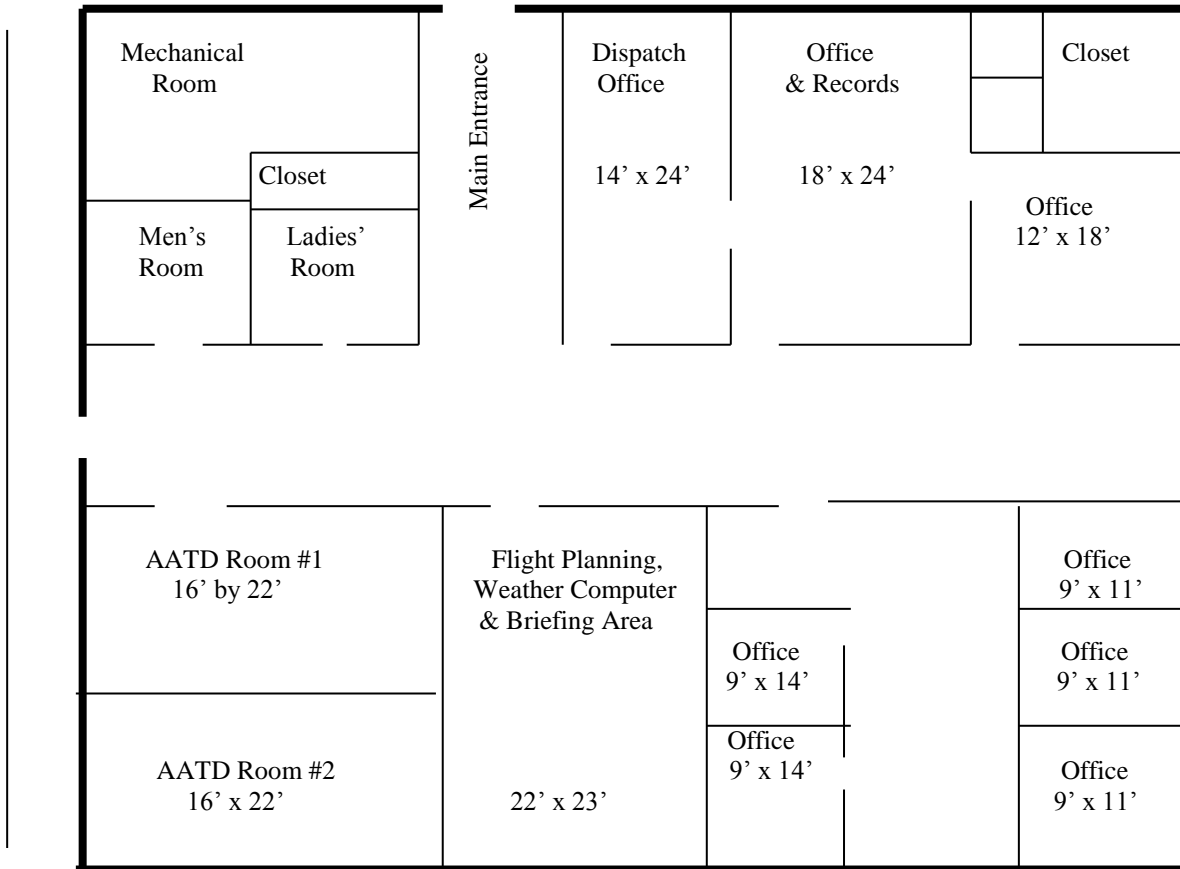
- ⊕ Overhead projector with audio/visual capability
- ⊕ Computer terminal including internet access
- ⊕ Video projector with DVD capability
- ⊕ Ceiling-mounted video projector unit
- ⊕ Wall-mounted dry-erase board
- ⊕ Aeronautical charts, publications, and aircraft components for training purposes only
- ⊕ Resource library
- ⊕ C172R Cockpit Procedures Trainers (CPT)

NOTE

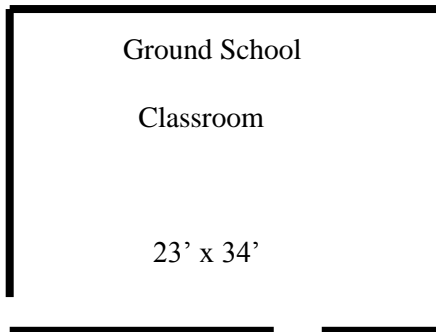
All classrooms and administrative areas comply with current local building, health and sanitation codes. All rooms are enclosed and easily accessible, and provide a clean instructional and operational environment free from outside distractions.

Flight Training Center Diagram

BSU Flight Operations Building



Not to Scale



**PRIVATE PILOT CERTIFICATION COURSE
-ASEL-**

**PART II
COURSE MANUAL**

PRIVATE PILOT GROUND TRAINING COURSE

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PERSONNEL

CHIEF FLIGHT INSTRUCTOR

The Chief Flight Instructor for this course is Evan Cushing, 2744804CFI. The Chief Flight Instructor meets the requirements of 14 CFR 141.35(e) and is designated by letter.

CHIEF GROUND INSTRUCTOR

The Chief Ground Instructor for this course is Evan Cushing, 2744804CFI. The Chief Ground Instructor meets the requirements of 14 CFR 141.35(e) and is designated by letter. Whenever a Chief or Assistant Chief Ground Instructor is either undesignated or unavailable, the Chief or Assistant Chief Flight Instructor(s) will assume these duties.

ASSISTANT CHIEF FLIGHT INSTRUCTOR

The Assistant Chief Flight Instructors for this course are Loren Herren, 2732117CFI and Christi Cushing, 3577516CFI. The Assistant Chief Flight Instructors meet the requirements of 14 CFR 141.36(e) and is designated in the Part 141 Operations Specifications.

ASSISTANT CHIEF GROUND INSTRUCTOR

The Assistant Chief Ground Instructors for this course are Loren Herren, 2732117CFI and Christi Cushing, 3577516CFI. The Assistant Chief Flight Instructors meet the requirements of 14 CFR 141.36(e) and is designated in the Part 141 Operations Specifications.

GROUND INSTRUCTORS

Each Ground Instructor assigned to this course must possess a valid Ground Instructor Certificate or a valid Flight Instructor Certificate with an Airplane rating. Other individuals may give instruction in this course if the Chief Flight Instructor (or if the Chief Flight Instructor is unavailable, the Assistant Chief Ground Instructor) finds that individual qualified to provide instruction. The instruction will be provided under the direct supervision of the Chief or Assistant Chief Instructor who is present at the facility when such instruction is given.

FLIGHT INSTRUCTORS

Each Flight Instructor assigned to this course must possess a valid Flight Instructor Certificate with an Airplane rating, and a valid Commercial Pilot certificate.

STUDENT INFORMATION

COURSE ENROLLMENT

To be eligible for enrollment in this course, students must be enrolled either as full-time degree-seeking students or as non-degree seeking students at Bridgewater State University, be of at least 16 years of age and be in possession of at least an FAA Third Class Medical Certificate. Additionally, they must have received or have submitted an application for an FAA Student Pilot Certificate.

COMPLETION STANDARDS FOR GRADUATION

To be eligible for graduation from this course, students must be able to read, speak, write, and understand the English language, and satisfactorily complete all ground and flight training tasks and lessons in this syllabus. Students will demonstrate through oral and written exams and flight tests the knowledge and skill requirements needed to pass the FAA Private Pilot Airman Knowledge Test and Practical Test.

LESSON DESCRIPTION AND STAGES OF TRAINING

The Bridgewater State University Private Pilot Course (ground) contains two (2) stages and a total of 21 lessons. The Flight portion of the course contains three (3) stages and 26 total lessons. Each lesson is fully described within the syllabus and includes objectives, completion standards, and measurable units of accomplishment. Stage objectives and completion standards are provided at the beginning of each stage within the syllabus.

TESTS AND STAGE CHECKS

The syllabus incorporates stage checks and end-of-course tests in accordance with CFR Part 141, Appendix B. The Chief Flight Instructor is responsible for ensuring that each student accomplishes the required stage checks and end-of-course tests in accordance with Bridgewater State University's approved training course. The Chief Flight Instructor may delegate authority for stage checks and end-of-course tests to the Assistant Chief or Check Instructor.

COURSE INTRODUCTION

The Bridgewater State University Private Pilot Course coordinates academic study assignments and flight training required for pilots learning to operate in a complex aviation environment. New subject matter is introduced during the ground lessons in multimedia formats, including but not limited to:

1. FAA Private Pilot Airman Certification Standards
2. Federal Aviation Regulations
3. Aeronautical Information Manual
4. FAA Pilot's Handbook of Aeronautical Knowledge
5. FAA Risk Management Handbook
6. FAA Airplane Flying Handbook
7. FAA AC 00-45 Aviation Weather
8. FAA AC 00-6 Aviation Weather Services
9. Appropriate Pilot's Operating Handbook
10. Appropriate BSU Flight Standards Manual
11. E6B Flight Computer and Manual
12. Current Chart Supplement
13. Current VFR Navigation Charts
14. Multi-media presentations
15. Instructor/student discussions
16. Knowledge quizzes and written exams

Whenever possible and practical, ground lessons are completed in ground school just prior to the respective flight lessons outlined in the syllabus. Bridgewater State University may elect to present all of the ground lessons before the student is introduced to the airplane. If a significant amount of time lapses between ground and flight lessons, instructors are expected to conduct review training of essential material to ensure that the student has retained and can apply the previous material. Flight lessons should not be conducted until the related ground lesson has been completed.

In accordance with established FAA practices, this syllabus utilizes the building-block theory of learning, where each item taught must be presented on the basis of previously learned knowledge and skills. It is designed to coordinate academic support materials with the flight lessons.

COURSE ELEMENTS

The Bridgewater State University Private Pilot-Airplane Course is designed to be conducted as a combined ground and flight training program, but it may be divided into separate components. This course includes the most current FAA pilot certification requirements. The syllabus and support materials provide necessary information and present the course in a logical manner.

GROUND TRAINING

In accordance with FAR Part 141, ground school training is an integral part of pilot certification courses. The Bridgewater State University ground training syllabus has been designed to meet this requirement. This course coordinates the sequence of ground and flight events to maximize effectiveness of the academic knowledge and its application during flight events.

Lessons shall be conducted in the numerical order as listed in the ground and flight training segments of the syllabus. Flexibility for adapting to individual student needs and training situations is occasionally required, but the syllabus lesson sequence may be altered only with the prior approval of the Chief or Assistant Chief Flight Instructor. Any deviation should not disturb the course continuity or objective. Each lesson may be presented in one session or divided into multiple sessions, as necessary.

USING THE GROUND LESSONS

The Bridgewater State University Private Pilot Course Ground lessons are best utilized by using all of the individual elements together in an organized approach as described in the syllabus. The syllabus contains cross-references which direct the user to the appropriate study materials for each lesson. Instructors are reminded to review the study assignment for the next lesson with their students.

STAGE CHECKS

Stage exams evaluate the student's level of knowledge, risk management capability, and proficiency within a stage of training. Students must successfully complete each stage exam before progressing to the next stage. The Chief Flight Instructor is responsible for the conduct of each stage check, and may designate authority for conducting the stage check to an Assistant Chief or Check Instructor, as necessary. This procedure provides close supervision of training, provides another opinion on the student's progress, and gives the Chief Flight Instructor an opportunity to evaluate training effectiveness. Minimum passing score for any written stage or final exam for the purpose of earning Part 141 credit toward the Private Pilot-Airplane certificate is 80%.

TEXTBOOKS/MULTI-MEDIA PRESENTATIONS

Prior to each ground lesson, students are expected to study the assigned text(s) or other media as the primary sources for initial study and review. The texts and media contain concise explanations of the fundamental concepts and ideas and are organized in a logical building-block sequence. Study of the assigned materials prior to the scheduled lesson will improve student preparation and reduce overall training time.

PRIVATE PILOT-AIRPLANE GROUND COURSE

COURSE OVERVIEW

COURSE OBJECTIVE

The student will obtain the knowledge, risk-management capability and proficiency necessary to meet the requirements for a Private Pilot certificate with an Airplane category rating and a single-engine land class rating.

COURSE COMPLETION STANDARDS

The student must demonstrate through knowledge tests, flight tests, and appropriate records that he/she meets the knowledge, risk management and proficiency requirements necessary to obtain a Private Pilot certificate with an Airplane category rating and a single-engine land class rating.

TRAINING SYLLABUS

The Bridgewater State University Private Pilot syllabus meets all curriculum requirements of 14 CFR 141, Appendix B.

TRAINING COURSE

The Ground Training course contains two (2) stages and a total of nineteen (19) lessons.

PRIVATE PILOT-AIRPLANE GROUND COURSE SYLLABUS

GROUND TRAINING COURSE OBJECTIVE

The student will obtain and demonstrate knowledge and aeronautical decision-making at a level that meets or exceeds FAA Private Pilot Airman Certification Standard and which is required to pass the FAA Private Pilot Airmen Knowledge test.

LESSON GRADING AND COMPLETION STANDARD

Each ground lesson is graded across three (3) elements; Knowledge (defined by the applicant's ability to demonstrate understanding of the task elements), Risk Management (defined by the applicant's ability to identify, assess and mitigate risks associated with the task) and Skill (defined by the applicant's ability to apply the skill necessary to achieve the listed objective).

GROUND TRAINING COMPLETION STANDARD

The student must demonstrate through written, oral and practical examination that s/he has obtained the knowledge (defined by the applicant's ability to demonstrate understanding of the task elements), risk management ability (defined by the applicant's ability to identify, assess and mitigate risks associated with the task) and skill (defined by the applicant's ability to apply the skill necessary to achieve the listed objective).at a level that meets or exceeds FAA Private Pilot - Airplane Airman Certification Standard and which is required to pass the FAA Private Pilot (ASEL) Airmen Knowledge test.

ATTENDANCE

Attendance and active participation is mandatory and failure to attend and/or participate in a scheduled event is considered an unexcused absence. Students are responsible for contacting their Ground Instructor if there is any question whether a training event will take place. (Aviation Operations Manual, Chapter 5). Any missed class time must be made up and all missed lesson items must be covered in order to complete the course, in accordance with 14 CFR Part 141.

PRIVATE PILOT-AIRPLANE GROUND COURSE TIME ALLOCATION TABLE

STAGE I

LESSON	SUBJECT	HOURS	
		Training	Exam
I.	Human Factors I, ADM, Risk Management	2.0	
II.	Principles of Flight, Weight and Balance	3.0	
III.	Performance and Limitations I	3.0	
IV.	Communication and Navigation	2.0	
V.	Introduction to Aircraft Systems	3.0	
VI.	Federal Aviation Regulations and Flight Operations	2.0	
VII.	Airports and Airspace	3.0	
VIII.	Intro to WX Theory, Obtaining WX Information	2.0	
IX.	Stage I Exam		2.0
Stage I Totals		20.0	2.0

STAGE II

LESSON	SUBJECT	HOURS	
		Training	Exam
X.	Human Factors and Aviation Physiology II	2.0	
XI.	Navigation and Flight Planning	4.0	
XII.	Airports and Airspace II, Radar and ATC Services	2.0	
XIII.	Weather Theory II, WX Patterns and Hazards	3.0	
XIV.	Obtaining Weather Information	2.0	
XV.	Principles of Flight, Weight and Balance, Stability II	3.0	
XVI.	Federal Aviation Regulations/AIM/NTSB 830	2.0	
XVII.	Aircraft Systems II	2.0	
XVIII.	Stage II Exam		2.0
XIX.	Final Exam		3.0
Stage II Totals		20.0	5.0
Course Totals		40.0	7.0

STAGE I

STAGE OBJECTIVE

The student will obtain and demonstrate the knowledge and aeronautical decision making skills necessary for safely operating the aircraft as a solo pilot in the airport environment and in the local area.

STAGE COMPLETION STANDARD

This stage is complete when the student completes all oral and written quizzes and the Stage I written exam with a minimum passing score of 80%.

STAGE I

GROUND LESSON 1 (2.0 hrs)

**HUMAN FACTORS I, RISK MANAGEMENT
AND AERONAUTICAL DECISION MAKING**

LESSON REFERENCES

FAA Pilot's Handbook of Aeronautical Knowledge, Ch. 16-2, 17, AIM Ch. 8, FAA Risk Management Handbook, Ch. 1 – 6.

RECOMMENDED SEQUENCE

1. Lesson Introduction
2. Material Presentation and Discussion
3. Knowledge Review

LESSON OBJECTIVE

Students will be introduced to the role of the pilot in command, the interface between human factors and aircraft operations, and the importance and process of risk assessment and decision-making during flight operations.

CONTENT

- ___ Responsibility and Authority of the Pilot-in-Command
- ___ Defining Risk Management
- ___ Human Behavior
- ___ Identifying Hazards and Mitigating Risk
- ___ Risk Assessment Methods
- ___ Aeronautical Decision Making
- ___ Single Pilot Resource Management

COMPLETION STANDARDS

Through in-class oral and/or written quizzing students will exhibit satisfactory knowledge, risk management, and skills associated with human factors, risk management and aeronautical decision making.

STAGE I

GROUND LESSON 2 (3.0)

**PRINCIPLES OF FLIGHT, WEIGHT AND BALANCE,
STABILITY**

LESSON REFERENCES

FAA PHAK, Ch. 3, 4, AFH Chs. 4 – 9, BSU
TOLD card, Aircraft POH

RECOMMENDED SEQUENCE

1. Lesson Introduction
2. Material Presentation and Discussion
3. Knowledge Review

COMPLETION STANDARDS

Through oral and/or written quizzing, students will exhibit satisfactory knowledge, risk management, and skills associated with principles of flight and weight and balance and their application during all phases of flight.

LESSON OBJECTIVE

Students are introduced to airfoil components and principles of flight, pilot control of the aircraft, and the importance and influence of aircraft weight and balance and stability on aircraft flight characteristics.

CONTENT

PRINCIPLES OF FLIGHT

- ___ Basic Airfoil Components
- ___ Relative Wind, Angle of Attack
- ___ Lift
- ___ Weight
- ___ Thrust
- ___ Drag
- ___ Ground Effect

WEIGHT AND BALANCE

- ___ Reference Datum
- ___ Weight, Arm, Moment
- ___ Center of Gravity
- ___ Proper Aircraft Loading
- ___ Load Factor

APPLICATIONS IN FLIGHT

- ___ Take Off and Climb
- ___ Straight and Level
- ___ Turning
- ___ Descending
- ___ Approach and Landing

STAGE I

GROUND LESSON 3 (3.0)

PERFORMANCE AND LIMITATIONS I

LESSON REFERENCES

FAA PHAK Chs. 9, 10, Aircraft POH, E6B and Flight Computer Manual

RECOMMENDED SEQUENCE

1. Lesson Introduction
2. Material Presentation and Discussion
3. Knowledge Review

LESSON OBJECTIVE

Students will be introduced to basic operation and application of manual and electronic flight computers, performance charts and weight/balance data in pre-flight planning, including weight and balance and performance calculations.

CONTENT

DETERMINING AIRCRAFT

PERFORMANCE

- ___ Aircraft Performance and Design
- ___ Determining Performance, FAR 91.103
- ___ Factors Affecting Performance
- ___ Density Altitude
- ___ Pressure Altitude
- ___ Takeoff and Landing Performance
- ___ Performance Chart Presentations and Use

WEIGHT AND BALANCE

- ___ Computing Weight and Balance
- ___ Computation Method
- ___ Table and Graph Methods

COMPLETION STANDARDS

During multiple scenarios students will exhibit satisfactory knowledge, risk management, and skills associated with performance and limitations, and demonstrate proper use of a manual or electronic flight computer and aircraft performance/weight and balance charts to complete a BSU TOLD card.

STAGE I
GROUND LESSON 4 (2.0)
COMMUNICATION AND NAVIGATION

LESSON REFERENCES

FAR Part 91, AIM Ch. 4, Pilot/Controller Glossary, Terminal Area Chart (Boston), Sectional Chart (New York), Chart Supplement

COMPLETION STANDARDS

Through oral and/or written quizzing students will exhibit satisfactory knowledge, risk management, and skills associated with aviation communications and navigation.

RECOMMENDED SEQUENCE

1. Lesson Introduction
2. Material Presentation and Discussion
3. Knowledge Review

LESSON OBJECTIVE

Students will be introduced to the aircraft communication and navigation equipment, communication terminology and phraseology, proper communication procedures, aeronautical charts and their use.

CONTENT

COMMUNICATION

- ___ Aircraft Communication Equipment
Including ELT
- ___ Phonetic Alphabet
- ___ Phraseology and Terminology
- ___ CTAF and UNICOM
- ___ Controlled and Uncontrolled Airports
- ___ Lost Communication Procedures
- ___ Emergency Procedure

NAVIGATION

- ___ Coordinated Universal Time
- ___ Latitude and Longitude
- ___ Chart Legend and Symbolology
- ___ Terminal Area Charts
- ___ Sectional Charts
- ___ Chart Supplement
- ___ Paper vs. Electronic Charts
- ___ Aircraft Navigation Equipment

STAGE I
GROUND LESSON 5 (3.0)
INTRODUCTION TO AIRCRAFT SYSTEMS

LESSON REFERENCES

FAA PHAK, Ch. 2, 5, 6, 7, Aircraft
Pilot's Operating Handbook

RECOMMENDED SEQUENCE

1. Lesson Introduction
2. Material Presentation and Discussion
3. Knowledge Review

LESSON OBJECTIVE

Students are introduced to the structure, components, and operation of the training airplane and its systems. The lesson shall include a full walk-around of the training aircraft.

CONTENT

- ___ Visual Inspection: "Walk Around"
- ___ Fuselage
- ___ Wings
- ___ Empennage
- ___ Landing Gear
- ___ Power plant/Propeller
- ___ Flight Controls and Trim
- ___ Flaps
- ___ Engine Instruments
- ___ Flight Instruments
- ___ Electrical, Fuel, Environmental
- ___ Pilot's Operating Handbook (POH)

COMPLETION STANDARDS:

Through oral and/or written quizzing students will exhibit satisfactory knowledge, risk management, and skills associated with the operation of aircraft systems.

STAGE I
GROUND LESSON 6 (2.0)
FEDERAL AVIATION REGULATIONS
AND FLIGHT OPERATIONS

LESSON REFERENCES

Federal Aviation Regulations Parts 1,
23, 43, 61, 67, 91, AIM 1 – 10, BSU
TOLD card

RECOMMENDED SEQUENCE

1. Lesson Introduction
2. Material Presentation and Discussion
3. Knowledge Review

LESSON OBJECTIVE

Students are introduced to sections of the Federal Aviation Regulations (FARs) and Aeronautical Information Manual specific to safe Student solo, their use and importance for safe flight operations.

CONTENT:

- ___ Overview of 14 CFR/FARs
- ___ Part 1
- ___ Part 43 (Maintenance)
- ___ Part 61 (Airmen)
- ___ Part 67 (Medical)
- ___ Part 91 (Operating Rules)
- ___ AIM (Aeronautical Information Manual) Overview and Chapter Walk-Through

COMPLETION STANDARDS

Students will exhibit satisfactory knowledge, risk management, and skills associated with the type, privileges and limitations of FAA Medical Certificates and the Student Pilot Certificate, applicable FARs and sections of the AIM.

STAGE I

GROUND LESSON 7 (3.0)

AIRPORTS AND AIRSPACE

LESSON REFERENCES

FAA Pilot's Handbook of Aeronautical Knowledge, Ch. 13, 14, FAR Part 61, 71, 91, AIM Ch. 2, 3, 4-2, Ch. 5-1, 5-22, 5-7 – 10. Ch. 6, Section 4.

COMPLETION STANDARDS

Through oral and/or written quizzing students will exhibit satisfactory knowledge, risk management, and skills associated with airports and airspace in the national airspace system.

RECOMMENDED SEQUENCE

1. Lesson Introduction
2. Material Presentation and Discussion
3. Knowledge Review

LESSON OBJECTIVE

The student will be introduced to airport operations and the national airspace system when operating under visual flight rules as a Private Pilot.

CONTENT

AIRPORTS

- ___ Controlled and Non-controlled
- ___ Runway Layout, Airport Diagram
- ___ Airport, Runway & Taxiway Markings, Lighting, and Wind Indicators
- ___ Right of Way Rules and Collision Avoidance
- ___ Runway Incursion Avoidance
- ___ Situational Awareness
- ___ Use of Radio, Proper Communications
- ___ Compliance with ATC Instructions

AIRSPACE

- ___ National Airspace System
- ___ Types of Airspace/Airspace Classes, Basic Weather Minimums (emphasis on Class D, E and G Airspace)
- ___ Charting Symbolology
- ___ Operating rules, Pilot Certifications, and Aircraft Equipment for Different Types of Airspace
- ___ Special Use, Restricted, and Other Airspace
- ___ Temporary Flight Restrictions

STAGE I

GROUND LESSON 8 (2.0)

INTRODUCTION TO WX, OBTAINING WX INFORMATION

LESSON REFERENCES

Pilot's Handbook of Aeronautical Knowledge,
Ch. 11, AIM Ch. 7, AC 00-6, AC-00-45H

RECOMMENDED SEQUENCE

1. Lesson Introduction
2. Material Presentation and Discussion
3. Knowledge Review

COMPLETION STANDARDS

Through oral and/or written quizzing students will exhibit satisfactory knowledge, risk management, and skills associated with basic weather theory, information, and applicability to flight operations

LESSON OBJECTIVE

Student are introduced to basic weather theory and information to be used for local flight planning.

CONTENT

- ___ The Atmosphere
- ___ Temperature, Pressure, Density
- ___ Atmospheric Circulation
- ___ Coriolis Force
- ___ Air Masses and Fronts
- ___ Local Wind Patterns
- ___ Atmospheric Stability
- ___ Moisture & Humidity
- ___ Dew Point
- ___ Clouds and Fog
- ___ Precipitation
- ___ PIREP
- ___ METAR
- ___ TAF
- ___ ATIS
- ___ Graphical Forecasts for Aviation (GFA Tool)

**STAGE I
GROUND LESSON 9 (2.0)
STAGE I EXAM**

LESSON REFERENCES

Lesson reference material for lessons 1 – 9.

RECOMMENDED SEQUENCE

1. Testing
2. Critique

LESSON OBJECTIVE

Students will demonstrate comprehension of the material presented in lessons 1 through 9.

CONTENT

STAGE I EXAM

- ___ Human Factors I, ADM, Risk Management
- ___ Introduction to FARs/AIM
- ___ Aircraft Systems
- ___ Principles of Flight, Weight and Balance, Stability
- ___ Performance I
- ___ Airports and Airspace
- ___ Communication and Navigation
- ___ Intro to WX/Obtaining WX Info

COMPLETION STANDARDS

This lesson and stage are complete when the student has completed the Stage I Exam with a minimum score of 80%.

STAGE II

STAGE OBJECTIVE

During this stage, the student will increase and exhibit satisfactory knowledge, risk management, and skills associated with human factors and aeronautical decision-making, aviation physiology, aircraft systems, applicable FARs (including incident/accident reporting), weather theory, patterns and hazards, how to obtain and interpret aviation weather information, and how to apply available information and resources to safely plan and execute solo and cross-country flight operations.

STAGE COMPLETION STANDARD

This stage is complete when the student has demonstrated an understanding of the knowledge areas by completing the Stage II written exam with a minimum passing score of 80%.

STAGE II

GROUND LESSON 10 (2.0)

HUMAN FACTORS AND AVIATION PHYSIOLOGY II

LESSON REFERENCES

FAA Pilot's Handbook of Aeronautical Knowledge Ch. 16, 17, FAR Parts 61, 91, AIM Ch. 8

RECOMMENDED SEQUENCE

1. Lesson Introduction
2. Material Presentation and Discussion
3. Knowledge Review

LESSON OBJECTIVE

Students will gain a basic understanding of physiological factors related to aviation operations, and increase their knowledge and development of aeronautical decision making skills and risk management.

CONTENT

AVIATION PHYSIOLOGY

- ___ Fitness for Flight
- ___ Alcohol and Drugs, FAR Part 61, 91
- ___ FAR Part 67
- ___ Respiration
- ___ Hypoxia
- ___ Hyperventilation

VISION

- ___ Eye Physiology
- ___ Day and Night Vision & Scanning
- ___ Visual Illusions
- ___ Landing Illusions
- ___ Day vs Night Preparation

SPATIAL DISORIENTATION

- ___ Visual Sense
- ___ Vestibular Sense
- ___ Kinesthetic Sense
- ___ Disorientation/Illusions
- ___ Motion Sickness

AERONAUTICAL

DECISION MAKING

- ___ Risk Management Models
- ___ Applying the Decision Making Process
- ___ Communication
- ___ Single Pilot Resource Management
- ___ Workload Management
- ___ Situational Awareness

COMPLETION STANDARDS

Through oral and/or written quizzing students will exhibit satisfactory knowledge, risk management, and skills associated with the lesson content.

STAGE II
GROUND LESSON 11 (4.0)
NAVIGATION AND FLIGHT PLANNING

LESSON REFERENCES

FAA Pilot's Handbook of Aeronautical Knowledge Ch. 9, 10, 15 – 17, AIM Ch. 1, 5, Sectional Chart, TAC, VFR Plotter, Navigation Log, Aircraft POH

RECOMMENDED SEQUENCE

1. Lesson Introduction
2. Discussion and Practice Exercises
3. Knowledge Review

LESSON OBJECTIVE

Students will learn basic VFR navigation using pilotage, dead reckoning, and navigation systems, and become familiar with recommended procedures for flight planning, use of an FAA Flight Plan, VFR cruising altitudes, and lost procedures.

CONTENT

PRE-FLIGHT PLANNING

- ___ Weight-Shift Formula
- ___ Effects of Operating at High Total Weights
- ___ Flight at Various CG Locations
- ___ Route Selection
- ___ Obtaining Weather Information
- ___ Completing the Navigation Log
- ___ Filing, Opening, Amending, Closing the Flight Plan
- ___ Preflight Inspection

FLIGHT COMPUTERS

- ___ Mechanical Flight Computers
- ___ Electronic Flight Computers and Online Applications
- ___ Compute Time, Speed, and Distance
- ___ Compute Airspeed and Density Altitude
- ___ Compute Wind Problems
- ___ Computer Weight Problems

- ___ Conversions
- ___ Multi-Part Problems

FLIGHT SCENARIO

- ___ Departure
- ___ KEWB to KHYA to KPVC to KBED
- ___ Diversion to an Alternate to KPVD
- ___ Return to KEWB

PILOTAGE AND DEAD RECKONING

- ___ Pilotage
- ___ Dead Reckoning
- ___ Flight Planning
- ___ VFR Cruising Altitudes
- ___ Flight Plan
- ___ Lost Procedures

VOR NAVIGATION

- ___ VOR Operations
- ___ Ground and Airborne Equipment
- ___ Basic Procedures
- ___ VOR Orientation and Navigation
- ___ VOR Checkpoints and Test Signals
- ___ VOR Precautions
- ___ Horizontal Situation Indicator
- ___ Distance Measuring Equipment (DME)

ADVANCED NAVIGATION EQUIP.

- ___ VORTAC-Based Area Navigation
- ___ Global Positioning System (GPS)
- ___ Wide Area Augmentation System (WAAS)

COMPLETION STANDARDS

Through oral and/or written quizzing students will exhibit satisfactory knowledge, risk management, and skills associated with the lesson content.

STAGE II
GROUND LESSON 12 (2.0)
AIRPORTS AND AIRSPACE II,
RADAR AND ATC SERVICES

LESSON REFERENCES

FAA PHAK Ch. 14, FAR 91.130 – 145,
AIM Ch. 3, 5 (Sect 6), Sectional Chart, TAC

RECOMMENDED SEQUENCE

1. Lesson Introduction
2. Discussion and Practice Exercises
3. Knowledge Review

COMPLETION STANDARD

Through oral and/or written quizzing students will exhibit satisfactory knowledge, risk management, and skills associated with the lesson content.

LESSON OBJECTIVE

Students will gain a basic understanding of the national airspace system and the services provided by various entities including radar services, automated weather services, and flight service stations.

CONTENT

AIRSPACE

- ___ Types of Airspace/Airspace Classes,
Basic Weather Minimums (emphasis on Class A, B and C Airspace)
- ___ Special VFR
- ___ Emergency Air Traffic Rules
- ___ Air Defense Identification Zones
- ___ Air Intercept Procedures

RADAR and ATC SERVICES

- ___ Radar
- ___ Transponder Requirements
- ___ Automated Dependent Surveillance Broadcast (ADS-B)
- ___ FAA Radar Systems
- ___ VFR Radar Services
- ___ Automated Terminal Information Svc (ATIS)
- ___ Flight Service Stations

STAGE II
GROUND LESSON 13 (3.0)
WEATHER THEORY II,
WX PATTERNS AND HAZARDS

LESSON REFERENCES

Pilot's Handbook of Aeronautical
Knowledge, Ch. 11, AIM Ch. 7, AC 00-6
Aviation Weather

COMPLETION STANDARDS:

Through oral and/or written quizzing
students will exhibit satisfactory knowledge,
risk management, and skills associated with
the lesson content.

RECOMMENDED SEQUENCE

1. Lesson Introduction
2. Material Presentation and Discussion
3. Knowledge Review

LESSON OBJECTIVE

Students will be introduced to various
weather conditions, systems, and hazardous
phenomena. Students will learn how to
recognize and avoid critical weather
situations before and during flight, including
hazards associated with thunderstorms, wind
shear and wake turbulence.

CONTENT

WEATHER HAZARDS

- ___ Thunderstorms
- ___ Turbulence
- ___ Wake Turbulence
- ___ Low Level Wind Shear and Avoidance
Procedures
- ___ In-Flight Wind Shear and Avoidance
Procedures
- ___ Microburst
- ___ Icing
- ___ Restrictions to Visibility
- ___ Volcanic Ash

STAGE II
GROUND LESSON 14 (2.0)
OBTAINING WEATHER INFORMATION II

LESSON REFERENCES

FAA PHAK, Ch. 12, AIM Ch. 7, AC 00-45
Aviation Weather Services

RECOMMENDED SEQUENCE

1. Lesson Introduction
2. Material Presentation and Discussion
3. Knowledge Review

LESSON OBJECTIVE

Students will learn how to obtain, interpret and apply advanced weather information products from a variety of text and graphic resources, and learn to recognize and plan for critical weather situations.

CONTENT

FORECASTING

- ___ Forecasting Methods
- ___ Types of Forecasts
- ___ Compiling/Processing Weather Data
- ___ Forecasting Accuracy and Limitations

TEXTUAL REPORTS AND FORECASTS

- ___ Radar Weather Reports
- ___ Winds & Temps Aloft Forecast (FD)
- ___ Severe Weather Reports and Forecasts
- ___ AIRMET/SIGMET/Convective SIGMET (WA/WS/WST)

GRAPHIC WEATHER PRODUCTS

- ___ Surface Analysis Chart
- ___ Weather Depiction Chart
- ___ Radar Summary Chart
- ___ Satellite Weather Pictures
- ___ Low-Level Significant Weather Prog
- ___ Convective Outlook Chart
- ___ Forecast Winds and Temps Aloft Chart
- ___ Volcanic Ash Frest/Dispersion Chart

SOURCES OF WEATHER INFORMATION

- ___ Preflight Weather Sources
- ___ In-Flight Weather Sources
- ___ Enroute Flight Advisory Service
- ___ Weather Radar Services
- ___ Automated Weather Reporting Systems

COMPLETION STANDARDS

Through oral and/or written quizzing students will exhibit satisfactory knowledge, risk management, and skills associated with the lesson content.

STAGE II

GROUND LESSON 15 (3.0)

**PRINCIPLES OF FLIGHT, WEIGHT AND BALANCE,
STABILITY II**

LESSON REFERENCES

FAA PHAK, Ch. 3, 4, AFH Ch. 4 – 9, BSU
TOLD card, Aircraft POH

RECOMMENDED SEQUENCE

1. Lesson Introduction
2. Material Presentation and Discussion
3. Knowledge Review

LESSON OBJECTIVE

Students will obtain additional and more in-depth knowledge of airfoil components and principles of flight, pilot control of the aircraft, and the importance and influence of aircraft weight and balance and stability on aircraft flight characteristics

CONTENT

STABILITY

- ___ Three Axes of Flight
- ___ Dynamic, Static, Neutral Stability
- ___ Longitudinal Stability
- ___ Lateral Stability
- ___ Directional Stability
- ___ Weight Shift and Tail-Down Force

DRAG

- ___ Types of Drag
- ___ Drag (Power) Curve

PROPELLER DYNAMICS

- ___ Basic Propeller Principles
- ___ Left-Turning Tendencies

AERODYNAMICS

- ___ Lift and Drag Formula
- ___ Load Factor and VG Diagram
- ___ Stall/Factors and Awareness

COMPLETION STANDARDS

Through oral and/or written quizzing, students will exhibit satisfactory knowledge, risk management, and skills associated with principles of flight and stability, and their application during all phases of flight.

**STAGE II
GROUND LESSON 16 (2.0)
FEDERAL AVIATION REGULATIONS/AIM II,
NTSB 830**

LESSON REFERENCES

FARS, AIM, NTSB 830, NASA Report

RECOMMENDED SEQUENCE

1. Lesson Introduction
2. Material Presentation and Discussion
3. Knowledge Review

COMPLETION STANDARDS

Through oral and/or written quizzing students will exhibit satisfactory knowledge, risk management, and skills associated with the lesson content.

LESSON OBJECTIVE

The student will increase his/her knowledge of the elements of the Federal Aviation Regulations (FARs), Aeronautical Information Manual AIM, and NTSB 830 for Private Pilot cross-country flight operations.

CONTENT

- ___ Part 1
- ___ Part 23
- ___ Part 43
- ___ Part 61
- ___ Part 67
- ___ Part 91
- ___ Part 141
- ___ NTSB 830
- ___ NASA Report
- ___ AIM

**STAGE II
GROUND LESSON 17 (2.0)
AIRCRAFT SYSTEMS II**

LESSON REFERENCES

FAA Pilot's Handbook of Aeronautical Knowledge Ch. 2, 5, 6, 7, Aircraft POH, Aircraft MX Manual, AC 91-78

COMPLETION STANDARDS

Through oral and/or written quizzing students will exhibit satisfactory knowledge, risk management, and skills associated with the lesson content.

RECOMMENDED SEQUENCE

1. Lesson Introduction
2. Material Presentation and Discussion
3. Knowledge Review

LESSON OBJECTIVE

Students will be increase their knowledge of aircraft systems including normal and abnormal operation, failure indications, and basic trouble-shooting procedures, with emphasis on maintaining safe aircraft control.

CONTENT

POWERPLANT & RELATED SYSTEMS

- ___ Reciprocating Engine Operating Principles
- ___ Induction Systems
- ___ Ignition System
- ___ Fuel, Oil and Hydraulic
- ___ Environmental
- ___ Propellers
- ___ Electrical

FLIGHT INSTRUMENTS

- ___ Pitot-Static System and Instruments
- ___ Vacuum System and Instruments
- ___ Magnetic Compass
- ___ Primary Flight Display
- ___ Multi-Function Display

AVIONICS

- ___ Ground-Based Navigation
- ___ Satellite-Based Navigation
- ___ Garmin 430
- ___ Transponder
- ___ Interface with Tablet/iPad

**STAGE II
GROUND LESSON 18 (2.0)
STAGE II EXAM**

LESSON REFERENCES

Lesson reference material for lessons 13 – 19.

RECOMMENDED SEQUENCE

1. Testing
2. Critique

LESSON OBJECTIVE

Students will demonstrate comprehension of the material presented in lessons 1 through 11.

CONTENT

STAGE II EXAM

- ___ Human Factors and ADM II
- ___ Aircraft Systems II
- ___ FARs/AIM/NTSB II
- ___ Weather Theory, Patterns and Hazards
- ___ Obtaining WX Information II
- ___ Navigation and Flight Planning
- ___ Airports and Airspace II, Radar and ATC Services

COMPLETION STANDARDS

This lesson and stage are complete when the student has completed the Stage II Exam with a minimum score of 80%.

STAGE II
GROUND LESSON 19 (3.0)
END OF COURSE FINAL EXAM

LESSON REFERENCES: As previously assigned in lessons 1 - 18

RECOMMENDED SEQUENCE:

1. Testing
2. Critique

LESSON OBJECTIVE:

Students will demonstrate comprehension of the material presented in this course in preparation for the FAA Private Pilot Airmen Knowledge Test.

CONTENT:

__Private Pilot Ground School Final Exam

COMPLETION STANDARDS

For Part 141 credit for completion of the course each student must complete the Private Pilot End of Course Final Exam with a minimum score of 80% .

PRIVATE PILOT-ASEL FLIGHT TRAINING SYLLABUS

COURSE OBJECTIVES

The student will obtain the necessary aeronautical knowledge, risk management, and skill necessary to meet FAA requirements for a private pilot certificate with an airplane category rating and single-engine land class rating.

LESSON GRADING AND COMPLETION STANDARDS

Each flight lesson is graded across three (3) elements; Knowledge (defined by the applicant's ability to demonstrate understanding of the task elements), Risk Management (defined by the applicant's ability to identify, assess and mitigate risks) and Skill (defined by the applicant's ability to apply the skill necessary to achieve the listed objective).

COMPLETION STANDARDS

The student must demonstrate through flight tests and school records that the aeronautical knowledge, risk management, and skill necessary to meet FAA requirements to obtain a private pilot certificate with an airplane category rating and single-engine land class rating have been met.

STAGE I OBJECTIVES

During this stage the student obtains the foundation for all future aviation training. The student will become familiar with the basic knowledge, aeronautical decision-making and risk management, and physical skills required to plan and conduct safe solo flights in the training airplane in the traffic pattern and local area using visual attitude reference.

STAGE I COMPLETION STANDARDS

At the completion of this stage, the student will demonstrate the acquisition of knowledge and proficiency in basic visual ground and flight maneuvers at a level that permits him/her to conduct solo aircraft operations in the traffic pattern and the local area of the home airport.

STAGE II OBJECTIVES

The student gains experience with solo operations, is introduced to VFR day and night cross-country flight planning and execution, navigation, flight by reference to instruments, emergency and abnormal procedures, and the National Airspace System.

STAGE II COMPLETION STANDARDS

This stage is complete when the student demonstrates through oral and flight tests and the knowledge, risk management, and skills necessary to conduct solo flights as Pilot In Command and dual VFR day and night cross-country flights as acting PIC, and complete the stage check at a level that meets or exceeds current FAA Private Pilot Airman Certification Standards.

STAGE III OBJECTIVES

The student will gain additional proficiency in local and cross-country solo operations in preparation for the end-of-course stage check and the FAA Practical Test.

STAGE III COMPLETION STANDARDS

This stage and the course are complete when the student demonstrates the knowledge, risk management, and flying skill necessary to conduct solo and dual day-VFR cross-country and local flights as Pilot In Command or acting PIC, and completes the stage check at a level that exceeds current FAA Private Pilot Airman Certification Standards.

**PRIVATE PILOT FLIGHT COURSE
TIME ALLOCATION TABLE**

STAGE NO.	LESSON NO.	SCHD TIME	DUAL	SOLO	FLIGHT BRIEF	INST. TRAINING	AATD/CPT	STAGE CHECK		A/C TYPE
								ORAL	FLIGHT	
I	1	2.5	1.5		1.0					ASEL
I	2	2.5			0.5		1.0/1.0			CPT/AATD
I	3	2.0	1.5		0.5					ASEL
I	4	2.0	1.5		0.5					ASEL
I	5	1.5	1.0		0.5					ASEL
I	6	2.0	1.5		0.5					ASEL
I	7	2.5			0.5		1.0/1.0			CPT/AATD
I	8	1.7	1.2		0.5					ASEL
I	9	2.0	1.5		0.5					ASEL
I	10	2.0	1.5		0.5					ASEL
	GRD A	2.0								GROUND
	GRD B	2.0								GROUND
I	11	3.5	1.5		0.5			2.0	1.5	ASEL
II	12	1.5	0.5	0.5	0.5					ASEL
II	13	2.0	0.0	1.0	1.0					ASEL
II	14	2.0	2.0		0.5	0.5	1.5/0			AATD
	15A	2.0								GROUND
II	15B	2.0	1.5		0.5	0.4				ASEL
II	16	2.0 X-C	1.5		0.5	0.3				ASEL
II	17	2.0 Night	1.5		0.5	0.3				ASEL
II	18	3.2 NT x-c	2.2		1.0	0.3				ASEL
II	19	2.5 D/N Opt	1.5		1.0	0.3				ASEL
II	20	3.5	1.5		0.5	0.4		2.0	1.5	ASEL
III	21	2.0	0.0	1.5	0.5					ASEL
III	22	2.5 x-c	2.0		0.5	0.3				ASEL
III	23	2.5 x-c	0.0	2.0	0.5					ASEL
III	24	2.0	1.5		0.5	0.3				ASEL
III	25	2.0	1.5		0.5					ASEL
III	26	4.0	1.7		0.5	0.4		2.0	2.0	ASEL
Totals			31.6	5.0	15.0	3.5	3.5/2.0	6.0	5.0	
MINIMUM COURSE HOURS										
			DUAL	SOLO	DUAL XC	DUAL NIGHT	INSTRUMENT TRNG AIRPLANE			
			31.6	5.0	5.7	3.0	3.0			



NOTE

INSTRUCTORS SHALL PROVIDE A FULL PRE AND POST-FLIGHT BRIEFING FOR EVERY FLIGHT TRAINING EVENT.

A MINIMUM 15 minutes pre-flight plus 15 minutes post-flight (.5 total) is expected.

STAGE I

STAGE I OBJECTIVE

During this stage the student obtains the foundation for all future aviation training. The student will become familiar with the basic knowledge, risk management, and skills required to plan and conduct safe solo flights in the training airplane in the traffic pattern and local area using visual attitude reference.

STAGE I COMPLETION STANDARD

At the completion of this stage, the student will demonstrate the acquisition of knowledge and proficiency in basic visual ground and flight maneuvers at a level that permits him/her to conduct solo aircraft operations in the traffic pattern and the local area of the home airport.

**STAGE I
FLIGHT LESSON 1
DUAL — LOCAL TO AN AIRPORT**

- A. Preflight Briefing
- B. Flight Lesson
- C. Post-flight Briefing and Critique

LESSON OBJECTIVE

The student is introduced to the training airplane, aeronautical decision making, and the knowledge, planning and procedures required for a safe flight. The instructor will demonstrate knowledge of basic aircraft ground and flight operation, human factors, and risk management during flight by visual reference. The student shall perform tasks as designated by the instructor.

CONTENT

INTRODUCTION

- ___ Human Factors
- ___ Preflight Assessment (Pilot Assmt)
- ___ Pilot Qualifications
- ___ Airworthiness Requirements
- ___ Operation of Flight Controls
- ___ Preflight Assessment (walk-around)
- ___ Engine Starting
- ___ Radio Communications
- ___ Cockpit Management
- ___ Taxiing
- ___ Before Takeoff Check
- ___ Normal Takeoff and Climb
- ___ Climbing and Descending
- ___ Straight-and-Level
- ___ Level Turns Right and Left
- ___ Speed Transitions in Level Flight
- ___ Coordination Exercise
- ___ Use of Trim
- ___ Normal Approach and Landing
- ___ Postflight Procedures

COMPLETION STANDARDS

The student will demonstrate and apply knowledge of basic aircraft ground and flight operation, ADM and human factors, and risk management during flight by visual reference. The student will conduct the takeoffs and landings with instructor assistance.

DATE: __/__/__	DUAL: ____	BRIEF: ____
_____ STUDENT NAME AND SIGNATURE		
_____ CFI NAME, SIGNATURE, CFI # & EXPIRATION DATE		
_____ ROUTE, LANDINGS & LOCATION(S)		
Lesson Grade ____		

**STAGE I
FLIGHT LESSON 2
DUAL — PROCEDURES TRAINER AND AATD**

- A. Preflight Briefing
- B. Flight Lesson
- C. Post-flight Briefing and Critique

LESSON OBJECTIVE

The student will demonstrate knowledge of flows, checklists and procedures in the Procedures Trainer and subsequently in the controlled dynamic environment of the AATD.

CONTENT REVIEW

- ___ Preflight Assessment (walk-around)
- ___ Engine Starting
- ___ Radio Communications
- ___ Cockpit Management

INTRODUCTION

PT:

- ___ Before Start Flow/Checklist
- ___ Engine Start Procedures/Checklist
- ___ Taxi Flow/Checklist
- ___ Before Takeoff Flow/Checklist
- ___ Takeoff Flow/Checklist
- ___ Climb Flow/Checklist
- ___ Cruise Flow/Checklist
- ___ Descent Flow/Checklist
- ___ Before Landing Flow/Checklist
- ___ After Landing Flow/Checklist
- ___ Shutdown Flow/Checklist
- ___ Pre-Maneuver Flow/Checklist

AATD:

- ___ Before Start Flow/Checklist
- ___ Engine Start Procedure/Checklist
- ___ Taxi Flow/Checklist
- ___ Before Takeoff Flow/Checklist
- ___ Takeoff Flow/Checklist
- ___ Climb Flow/Checklist
- ___ Cruise Flow/Checklist
- ___ Descent Flow/Checklist
- ___ Before Landing Flow/Checklist
- ___ After Landing Flow/Checklist
- ___ Shutdown Flow/Checklist
- ___ Radio/ATC Communications
- ___ Taxi Procedures

COMPLETION STANDARDS:

The student will display competency and proficiency in the performance of flows and checklists both in the Procedures Trainer and the AATD. The student must demonstrate sufficient procedural knowledge and smooth performance in both environments so that operation in the aircraft will be efficient and consistent.

DATE: ___/___/___ DUAL: ___ BRIEF: ___

STUDENT NAME / SIGNATURE

CFI NAME / SIGNATURE / CFI # & EXP.

Lesson Grade _____

**STAGE I
FLIGHT LESSON 3
DUAL — LOCAL**

- A. Preflight Briefing
- B. Flight Lesson
- C. Post-flight Briefing and Critique

LESSON OBJECTIVE

The student will increase knowledge, skill and risk-management ability for all tasks. The flight will include a minimum (4) takeoffs and landings. *Emphasize VISUAL attitude flying, use of checklist flows, and correct see & avoid procedures.*

CONTENT

REVIEW

- ___ Review of Previous Lesson
- ___ Outcome/Goals
- ___ Preflight Assessment (Pilot Assmt)
- ___ Airworthiness Requirements
- ___ Preflight Assessment
- ___ Engine Starting
- ___ Radio Communications
- ___ Cockpit Management
- ___ Before Takeoff Check
- ___ Normal Takeoff and Climb
- ___ Climbing and Descending
- ___ Straight-and-Level
- ___ Level Turns Right and Left
- ___ Speed Transitions in Level Flight
- ___ Coordination Exercise
- ___ Use of Trim
- ___ Normal Approach and Landing
- ___ Postflight Procedures

INTRODUCTION

- ___ Obtaining a FSS Weather Briefing
- ___ National Airspace System
- ___ Performance and Limitations
- ___ Go/No Go Decision Making
- ___ Maneuvering During Slow Flight
- ___ Power Off Stall (Imminent & Full)
- ___ Departure/Power On Stall (Imm & Full)
- ___ Turning Stall (Imminent)
- ___ Traffic Patterns
- ___ Go-Around/Rejected Landing

COMPLETION STANDARDS

The student will display increased proficiency in aircraft ground and flight operations. Landings will be performed with instructor assistance as needed. The student will work towards maintaining altitude $\pm 100'$ and heading $\pm 10^\circ$ during flight, and demonstrate increased proficiency with flight by visual reference.

DATE: ___/___/___	DUAL: ___ BRIEF: ___
_____ STUDENT NAME / SIGNATURE	
_____ CFI NAME / SIGNATURE / CFI # & EXP.	
_____ ROUTE OF FLIGHT	
_____ LANDINGS & LOCATION:	
Lesson Grade _____	

**STAGE I
FLIGHT LESSON 4
DUAL — LOCAL**

- A. Preflight Briefing
- B. Flight Lesson
- C. Post-flight Briefing and Critique

LESSON OBJECTIVE

The student will be introduced to ground reference maneuvers They will increase knowledge, skill and risk-management ability for all tasks. The flight will include a minimum (4) takeoffs and landings.

Emphasize VISUAL attitude flying, use of checklist flows, and correct see & avoid procedures.

**CONTENT
REVIEW**

- ___ Review of Previous Lesson
- ___ Outcome/Goals
- ___ Obtaining a FSS Weather Briefing
- ___ Go/No Go Decision Making
- ___ PIC Authority and Responsibility
- ___ Maneuvering During Slow Flight
- ___ National Airspace System
- ___ Power Off Stall
- ___ Power On Stall
- ___ Turning Stall
- ___ Go-Around/Rejected Landing
- ___ Normal Landing
- ___ Traffic Patterns
- ___ Postflight Procedures

INTRODUCTION

- ___ Sys. and Eqpmt Malfunctions
- ___ Rectangular Course
- ___ Turns Around a Point
- ___ S-Turns
- ___ Forward Slip to a Landing

COMPLETION STANDARDS

The student will display increased knowledge and proficiency on all tasks and maneuvers by visual reference and perform take offs without instructor assistance, and landings with instructor assistance as necessary. Altitudes will be maintained +/- 100', headings +/- 10⁰, and +10/-5 knots of specified airspeed.

DATE: __/__/__	DUAL: ____	BRIEF: ____
_____ STUDENT NAME / SIGNATURE		
_____ CFI NAME / SIGNATURE / CFI # & EXP.		
_____ ROUTE OF FLIGHT		
LANDINGS & LOCATION: _____		
Lesson Grade _____		

**STAGE I
FLIGHT LESSON 5
DUAL — LOCAL**

- A. Preflight Briefing
- B. Flight Lesson
- C. Post-flight Briefing and Critique

LESSON OBJECTIVE

The student will be introduced to steep turns and emergency procedures and increase knowledge, skill and risk-management ability for all tasks. The introduction of Emergency Approach and Landing will be introduced with an emphasis on energy management. *Emphasize VISUAL attitude flying, use of checklist flows, and correct see & avoid procedures.*

CONTENT

REVIEW

- ___ Review of Previous Lesson
- ___ Outcome/Goals
- ___ Pilot Qualifications
- ___ Airworthiness Requirements
- ___ Performance and Limitations
- ___ Obtain a FSS Weather Briefing
- ___ Preflight Assessment
- ___ Normal and/or Crswd Take Off
- ___ Power-Off Stall (Full)
- ___ Power-On Stall (Full)
- ___ Sys. and Eqpmt Malfunctions (Fuel)
- ___ Normal and/or Crswd Landing
- ___ Post-flight Procedures

INTRODUCTION

- ___ Steep Turns
- ___ Emergency Procedures
- ___ Emerg. Appch and Ldg to Runway
- ___ Emergency Appch to Ldg (Simulated, Off-Airport)
- ___ Crosswind Takeoff and Climb
- ___ Crosswind Approach and Landing

COMPLETION STANDARDS

The student will display increased knowledge and proficiency on all review tasks and maneuvers, have flown to and landed at an airport other than the home airport, and perform take offs and landings with minimal instructor assistance. Altitudes will be maintained +/- 100', headings +/- 10⁰, and +10/-5 knots of specified airspeed.

DATE: ___/___/___	DUAL: _____ BRIEF: _____
STUDENT NAME / SIGNATURE _____	
CFI NAME / SIGNATURE / CFI # & EXP. _____	
ROUTE OF FLIGHT _____	
LANDINGS & LOCATION: _____	
Lesson Grade _____	

**STAGE I
FLIGHT LESSON 6
DUAL — LOCAL**

- A. Preflight Briefing
- B. Flight Lesson
- C. Post-flight Briefing and Critique

LESSON OBJECTIVE

This lesson will be a progress check of the student's skill set in performing the maneuvers required for solo flight. The student will conduct a minimum (3) takeoffs and landings. *Emphasize VISUAL attitude flying, use of checklist flows, and correct see & avoid procedures.*

**CONTENT
REVIEW**

- Ground lesson A complete
- Maneuvering During Slow Flight
- Power Off Stall (Imminent & Full)
- Departure/Power On Stall (Imm & Full)
- Turning Stall (Imminent)
- Traffic Patterns
- Go-Around/Rejected Landing
- Sys. and Eqpmt Malfunctions
- Rectangular Course
- Turns Around a Point
- S-Turns
- Forward Slip to a Landing
- Steep Turns
- Emergency Procedures
- Emerg. Appch and Ldg
- Crosswind Takeoff and Climb
- Crosswind Approach and Landing

COMPLETION STANDARDS

The student will demonstrate increased knowledge and proficiency in all tasks flying by visual reference, complete takeoffs, landings, and go-arounds **without instructor assistance**, and maintain altitudes +/- 100', headings +/- 10°, and airspeeds +/- 10 kts.

DATE: __/__/__	DUAL: ____ BRIEF: ____
STUDENT NAME / SIGNATURE _____	
CFI NAME / SIGNATURE / CFI # & EXP. _____	
ROUTE OF FLIGHT _____	
LANDING & LOCATION: _____	
Lesson Grade _____	

**STAGE I
FLIGHT LESSON 7
DUAL — PROCEDURES TRAINER AND AATD**

- A. Preflight Briefing
- B. Flight Lesson
- C. Post-flight Briefing and Critique

LESSON OBJECTIVE

The student will demonstrate knowledge and improve proficiency in Emergency Procedures, using the Procedures Trainer, and the ability to enter the traffic pattern and deal with dynamic changes to traffic patterns at both controlled and uncontrolled airports, using the AATD.

CONTENT

REVIEW – PT

- ___ C-172 FSM Emergency Procedures
- ___ C-172 FSM Abnormal Procedures

REVIEW -- AATD

- ___ Depart Class D airport for Practice Area
- ___ Collision Avoidance Procedures
- ___ Comms and ATC Light Signals
- ___ Awareness of Class D airspace
- ___ Selected Stage 1 Maneuvers (optional)
- ___ Sys. and Eqpmt Malfunctions
- ___ Ground Reference Manuever
- ___ Stall (Power-Off or Power On)

INTRODUCTION – AATD

- ___ Diverting to another airport (with and without GPS)
- ___ Entry to traffic pattern at uncontrolled airport
- ___ Radio communications at Class D airports
- ___ Radio communications at uncontrolled airports
- ___ Runway change at Class D airport
- ___ Pattern entry change at Class D airport
- ___ Loss of comm. at a Class D airport
- ___ In-Flight Partial Power Loss

COMPLETION STANDARDS

The student will display competency and proficiency in the performance of flows and checklists both in the Procedures Trainer and the AATD. The student must demonstrate sufficient procedural knowledge and smooth performance in both environments so that operation in the aircraft will be efficient and consistent.

DATE: __/__/__	DUAL: ____ BRIEF: ____
_____ STUDENT NAME / SIGNATURE	
_____ CFI NAME / SIGNATURE / CFI # & EXP.	
_____ ROUTE OF FLIGHT	
LANDINGS & LOCATION: _____	
Lesson Grade _____	

**STAGE I
FLIGHT LESSON 8
DUAL — LOCAL TO AN AIRPORT**

- A. Preflight Briefing
- B. Flight Lesson
- C. Post-flight Briefing and Critique

LESSON OBJECTIVE

The student will continue to increase knowledge, skill and risk management ability for all tasks. The flight will be to an airport other than the home airport with a landing. *Emphasize VISUAL attitude flying, use of checklist flows, and correct see & avoid procedures.*

**CONTENT
REVIEW**

- ___ Review of Previous Lesson
- ___ Outcome/Goals
- ___ Obtain a FSS Weather Briefing
- ___ Performance and Limitations
- ___ Preflight Assessment (Aircraft)
- ___ Comms and Light Gun Signals
- ___ Taxiing
- ___ Traffic Patterns
- ___ Use of Trim
- ___ Maneuvering During Slow Flight
- ___ Power Off Stall (Imminent & Full)
- ___ Departure/Power On Stall (Imm & Full)
- ___ Diverting to another airport (with and without GPS)
- ___ Entry to traffic pattern at uncontrolled airport
- ___ Forward Slip to a Landing
- ___ Go-Around/Rejected Landing
- ___ Emergency Approach and Landing
- ___ Postflight Procedures

INTRODUCTION

- ___ Secondary Stall (demonstration)
- ___ Accelerated Stall (demonstration)
- ___ Systems & Eqpmt Malfnctn (Trim)

COMPLETION STANDARDS

The student will have flown to an airport other than the home airport, demonstrate increased knowledge, skill and risk management for all listed tasks, conduct the listed tasks and a minimum (4) takeoffs and landings with no instructor assistance, maintaining altitude +/- 100', headings +/- 10°, and airspeed +/- 10 knots. At least one full stop and taxi back must be conducted at an airport other than the home airport.

DATE: ___/___/___	DUAL: _____	BRIEF: _____

STUDENT NAME / SIGNATURE		

CFI NAME / SIGNATURE / CFI # & EXP.		

ROUTE OF FLIGHT		
LANDING & LOCATION: _____		
Lesson Grade _____		

**STAGE I
FLIGHT LESSON 9
DUAL — LOCAL TO AN AIRPORT**

- A. Preflight Briefing
- B. Flight Lesson
- C. Post-flight Briefing and Critique

LESSON OBJECTIVE

The student will continue to increase knowledge, proficiency and decision-making in the listed maneuvers and procedures. The flight will be to an airport other than the home airport with a landing. The preflight review shall consist of an assessment of the student's aircraft systems knowledge appropriate to pre-solo flight. Ground review will be conducted as necessary

**CONTENT
REVIEW**

- ___ Review of Previous Lesson Outcome/Goals (ground lesson B complete)
- ___ Performance and Limitations
- ___ Preflight Assessment
- ___ Turns Around A Point
- ___ S-Turns
- ___ Emergency Appch to Ldg (Simulated, Off-Airport)
- ___ In-flight power loss leading to diversion
- ___ Diverting to another airport (with and without GPS)
- ___ Entry to traffic pattern at uncontrolled airport
- ___ Go-Around/Rejected Landing
- ___ Postflight Procedures

INTRODUCTION

- ___ Crossed-Control Stall (demonstration)
- ___ Elevator Trim Stall (demonstration)
- ___ In-Flight Partial Power Loss (sim.)
- ___ No-Flap Approach and Landing

COMPLETION STANDARDS

The student will have flown to and landed at an airport other than the home airport, and demonstrate increased knowledge and proficiency in all listed tasks. The student will maintain altitude +/- 100', headings +/- 10°, and airspeed +/- 10 knots, and be able to conduct all tasks with minimal instructor assistance.

DATE: ___/___/___	DUAL: _____ BRIEF: _____
STUDENT NAME / SIGNATURE _____	
CFI NAME / SIGNATURE / CFI # & EXP. _____	
ROUTE OF FLIGHT _____	
LANDING & LOCATION: _____	
Lesson Grade _____	

**STAGE I
FLIGHT LESSON 10
DUAL — LOCAL TO AN AIRPORT**

- A. Preflight Briefing
- B. Flight Lesson
- C. Post-flight Briefing and Critique

LESSON OBJECTIVE

The student will review all listed tasks in preparation for the first stage check and solo flight in the traffic pattern.

COMPLETION STANDARDS

The student will demonstrate increased knowledge, skill, and risk management ability for all listed tasks, maintain altitude +/- 100', headings +/- 10°, and airspeed +/- 10 knots, and conduct all tasks without instructor assistance.

**CONTENT
REVIEW**

- ___ Obtain a FSS Weather Briefing
- ___ Preflight Assessment
- ___ Cockpit Management
- ___ Engine Starting
- ___ Comms & Light Gun Signals
- ___ Taxiing
- ___ Before Takeoff Check
- ___ Normal Takeoff & Climb
- ___ Traffic Patterns
- ___ Use of Trim
- ___ Pilotage
- ___ Ground Reference Maneuvers
- ___ Maneuvering During Slow Flight
- ___ Power Off Stall
- ___ Power On Stall
- ___ Spin Awareness
- ___ In-Flight Partial Power Loss (sim.)
- ___ Systems and Eqpmt Malfunction
- ___ Emergency Approach and Landing
- ___ Normal Approach and Landing
- ___ Crosswind Approach and Landing
- ___ Go-Around/Rejected Landing
- ___ Postflight Procedures

DATE: __/__/__	DUAL: ____ BRIEF: ____
_____ STUDENT NAME / SIGNATURE	
_____ CFI NAME / SIGNATURE / CFI # & EXP.	
_____ ROUTE OF FLIGHT	
LANDING & LOCATION: _____	
Lesson Grade _____	

**STAGE I
GROUND LESSON A
GROUND LESSON**

| A. Ground Lesson

LESSON OBJECTIVE

The student and CFI will review knowledge items pertinent to Private Pilot pre-solo operations. *Ground Lesson A must be satisfactorily completed prior to the commencement of Lesson 6.*

COMPLETION STANDARDS

The student will display exhibit adequate knowledge of the covered subject areas sufficient for safe solo operations. The instructor will evaluate the student's knowledge with a quiz at the conclusion of the lesson.

**CONTENT
REVIEW**

- Human Factors
- Pilot Qualifications
- Airworthiness Requirements
- Aircraft Weight and Balance
- Performance and Limitations

DATE: ___/___/___ DUAL: _____ BRIEF: _____

STUDENT NAME / SIGNATURE

CFI NAME / SIGNATURE / CFI # & EXP.

Lesson Grade _____

STAGE I
GROUND LESSON B

A. Ground Lesson

LESSON OBJECTIVE

The student and CFI will review knowledge items pertinent to Private Pilot pre-solo operations. ***Ground Lesson B must be satisfactorily completed prior to the commencement of Lesson 9.***

COMPLETION STANDARDS

The student will display exhibit adequate knowledge of the covered subject areas sufficient for safe solo operations. The instructor will evaluate the student's knowledge with a quiz at the conclusion of the lesson.

CONTENT
REVIEW

- ___ 14 CFR Parts 61 and 91
- ___ Aircraft Systems
- ___ Aeronautical Decision Making
- ___ Interpreting Weather Reports and Forecasts
- ___ National Airspace System
- ___ Hazardous Wind Shear Avoidance
- ___ Wake Turbulence Avoidance
- ___ Pre-solo written exam reviewed, graded and corrected to 100%

DATE: ___/___/___ DUAL: ____ BRIEF: ____

STUDENT NAME / SIGNATURE

CFI NAME / SIGNATURE / CFI # & EXP.

Lesson Grade ____

**STAGE I
FLIGHT LESSON 11, STAGE CHECK
DUAL — LOCAL (Optional - TO AN AIRPORT)**

- A. Oral Exam
- B. Pre-Flight Briefing and Flight Exam
- C. Post-flight Briefing and Evaluation

LESSON OBJECTIVE

The Chief Flight Instructor or designee will evaluate the student’s ability to demonstrate the aeronautical decision-making, knowledge and skill required to safely operate the airplane in solo flight in the local area and traffic pattern.

CONTENT

ORAL

- ___ Pilot Qualifications
- ___ Airworthiness Requirements
- ___ Performance and Limitations
- ___ Aircraft Weight and Balance
- ___ National Airspace System
- ___ Operation of Systems
- ___ Human Factors

FLIGHT

- ___ Obtain a FSS Weather Briefing
- ___ Preflight Assessment
- ___ Cockpit Management
- ___ Engine Starting
- ___ Comms & Light Gun Signals
- ___ Taxiing
- ___ Before Takeoff Check
- ___ Normal Takeoff & Climb
- ___ Crosswind Takeoff & Climb
- ___ Traffic Patterns
- ___ Use of Trim
- ___ Pilotage
- ___ Ground Reference Maneuvers
- ___ Maneuvering During Slow Flight

- ___ Power Off Stall
- ___ Power On Stall
- ___ Spin Awareness
- ___ In-Flight Partial Power Loss (sim.)
- ___ Systems and Equipment Malfunction
- ___ Emergency Approach and Landing
- ___ Normal Approach and Landing
- ___ Crosswind Approach and Landing
- ___ Go-Around/Rejected Landing
- ___ Postflight Procedures

COMPLETION STANDARDS

The student will demonstrate the aeronautical decision-making, knowledge and skill required to safely operate the airplane in solo flight in the local area and traffic pattern while acting as Pilot-In-Command. Altitude will be maintained +/- 100’, headings +/- 10°, and airspeeds +/- 5 knots.

DATE: ___/___/___	DUAL: _____	BRIEF: _____
_____ STUDENT NAME / SIGNATURE		
_____ CFI NAME / SIGNATURE / CFI # & EXP.		
_____ ROUTE OF FLIGHT		
# LANDINGS & LOCATION: _____		
Lesson Grade _____		

STAGE II

STAGE II OBJECTIVES

The student gains experience with solo operations, is introduced to VFR day and night cross-country flight planning and execution, navigation, flight by reference to instruments, emergency and abnormal procedures.

STAGE II COMPLETION STANDARDS

This stage is complete when the student demonstrates through oral and flight tests the knowledge, risk management, and skills necessary to conduct solo flights as Pilot In Command and dual VFR day and night cross-country flights as acting PIC, and complete the stage check at a level that meets or exceeds current FAA Private Pilot Airman Certification Standards.

**STAGE II
FLIGHT LESSON 12
DUAL and SOLO — LOCAL**

- A. Preflight Briefing
- B. Flight Lesson
- C. Post-flight Briefing and Critique

LESSON OBJECTIVE

The student will conduct her/his final practice flight before flying solo in the airport traffic pattern. Following the dual portion of the lesson, the instructor will leave the aircraft and supervise the student as he/she conducts the first solo flight.

CONTENT

REVIEW DUAL

- ___ Review of Previous Lesson
- ___ Outcome/Goals
- ___ Preflight Assessment
- ___ Pilot Qualifications
- ___ Obtain a FSS Weather Briefing
- ___ Taxiing
- ___ Normal and X-wind T.O. and Climb
- ___ Traffic Patterns
- ___ Go-Around/Rejected Landing
- ___ Normal and X-wind Appch & Landing

INTRODUCTION: FIRST SOLO

- ___ Taxiing
- ___ Normal and X-wind Takeoff and Climb
- ___ Traffic Patterns
- ___ Normal and X-wind Appch & Landing
- ___ Postflight Procedures

COMPLETION STANDARDS

This lesson is complete when the student demonstrates the knowledge, risk management and skill required to safely conduct all listed tasks without instructor assistance. During solo flight, the student will conduct a minimum three (3) full-stop taxi-back landings in the traffic pattern at an airport.

DATE: _____ DUAL: ____ SOLO : ____ BRIEF: ____
_____ STUDENT NAME / SIGNATURE
_____ CFI NAME / SIGNATURE / CFI # & EXP.
_____ ROUTE OF FLIGHT
LANDINGS & LOCATION: _____
Lesson Grade ____

**STAGE II
FLIGHT LESSON 13
SOLO — LOCAL**

- A. Preflight Briefing
- B. Flight Lesson
- C. Post-flight Briefing and Critique

LESSON OBJECTIVE:

The student will safely conduct a solo flight from the home airport and practice the listed maneuvers to increase proficiency and confidence. All in-flight maneuvers will be conducted at an altitude that permits recovery above 3000' AGL. The student shall accumulate no less than 1.0 solo flight time on this flight.

CONTENT

PRE-FLIGHT BRIEFING

- ___ Review of Previous Lesson Outcome/Goals
- ___ Aeronautical Decision Making
- ___ Obtaining a FSS Weather Briefing
- ___ Weight and Balance
- ___ Performance and Limitations

REVIEW

- ___ Preflight Inspection
- ___ ATC Communications
- ___ Taxiing
- ___ Before Takeoff Check
- ___ Normal Takeoff and Climb
- ___ Traffic Patterns
- ___ Normal Approach and Landing
- ___ Postflight Procedures

INTRODUCTION SOLO

- ___ Go-Around/Rejected Landing
- ___ Maneuvering During Slow Flight
- ___ Power Off Stall (Imm.)
- ___ Power On Stall (Imm.)
- ___ Steep Turns
- ___ Pilotage

COMPLETION STANDARDS

The student will have safely conducted a solo flight within 25 NM from the home airport, and increased his/her proficiency and confidence while conducting the listed tasks. All in-flight maneuvers will be conducted at an altitude that permits recovery above 3000' AGL. The student shall accumulate not less than 1.0 solo flight time.

DATE: ___/___/___	SOLO: _____	BRIEF: _____

STUDENT NAME / SIGNATURE		

CFI NAME / SIGNATURE / CFI # & EXP.		

ROUTE OF FLIGHT		
# LANDINGS & LOCATION: _____		
Lesson Grade _____		

**STAGE II
FLIGHT LESSON 14
DUAL — AATD
(SIMULATED IFR AND NIGHT)**

- A. Preflight Briefing
- B. Flight Lesson
- C. Post-flight Briefing and Critique

LESSON OBJECTIVE

The student will expand experience with flight by reference to instruments, be introduced to similarities between night and instrument flight conditions, and be introduced to emergency procedures. Students are to obtain a minimum 0.5 hours of simulated flight by reference to instruments.

CONTENT

REVIEW

- ___ Review of Previous Lesson Outcome/Goals
- ___ Cockpit Management

INTRODUCTION (ALL IR)

- ___ Straight and Level Flight
- ___ Turns to Headings
- ___ Recovery from Unusual Flight Attitudes

Simulated Instrument Flying Conditions

- ___ Determining Aircraft Position
- ___ VOR Orientation and Tracking
- ___ GPS Orientation and Tracking
- ___ CFIT Avoidance: Climbs & Descents
- ___ Radio Comms, Nav Systems, and Radar Svcs

Simulated Night Flying Conditions

- ___ Night Preparation
- ___ Straight and Level Flight
- ___ Turns to Headings
- ___ Climb
- ___ Descent
- ___ Determining Aircraft Position
- ___ Airport, Runway and Taxiway Lighting

Emergency Operations

- ___ Oil Pressure/Temp Warning
- ___ Engine Failure During Takeoff
- ___ Alternator Failure
- ___ Vacuum System Failure
- ___ Low Fuel Warning

COMPLETION STANDARDS

The student will demonstrate the knowledge, risk management, and skill to determine aircraft orientation using navigation systems and radar services, demonstrate aircraft control by reference to instruments, conduct proper procedures when faced with various emergency situations, maintain altitude +/- 200', headings +/- 20°, and airspeeds +/- 10 knots . *The student will obtain a minimum 0.5 hours of training in flight by reference to instruments.*

DATE: ___/___/___ DUAL AATD: ___ IR: ___ BRIEF: ___

STUDENT NAME / SIGNATURE

CFI NAME / SIGNATURE / CFI # & EXP.

ROUTE OF FLIGHT

Lesson Grade _____

**STAGE II
FLIGHT LESSON 15A
GROUND LESSON**

A. Ground Lesson

LESSON OBJECTIVE

The student will learn the proper procedures and techniques for planning a safe VFR cross-country flight.

CONTENT

REVIEW

- Review of Previous Lesson
- Outcome/Goals
- Obtain a FSS Weather Briefing
- Purpose of IR training for PVT pilots
- Instrument Scan and Interpretation
- Preflight Assessment (Envir. Factors)

INTRODUCTION

- Navigation Log Preparation
- Radio Comms, Nav Sys, & Radar Svcs
- Use of Aircraft Performance Charts
- Flight Planning Considerations
- Filing the Flight Plan
- Cross Country Departure Procedures
- Opening and Closing Flight Plan
- Use of Departure and Approach Control
- Dead Reckoning
- Lost Procedures
- National Airspace System

COMPLETION STANDARDS

The student will successfully complete the planning to complete the VFR cross-country required by Lesson 16.

DATE: _____ DUAL: _____ IR: _____ BRIEF: _____

STUDENT NAME / SIGNATURE

CFI NAME / SIGNATURE / CFI # & EXP.

Lesson Grade _____

STAGE II
FLIGHT LESSON 15B
DUAL — LOCAL TO AN AIRPORT

- A. Preflight Briefing
- B. Flight Lesson
- C. Post-flight Briefing and Critique

LESSON OBJECTIVE

The student will review previously learned material, be introduced to VFR navigation and flight by reference to instruments in the airplane, with special emphasis placed on proper pre-flight planning, cockpit management, and diverting to an alternate airport. The flight will be to a landing at an airport other than the home airport. The student shall receive a minimum 0.3 hours of instrument training during the flight.

CONTENT REVIEW

- ___ Obtain a FSS Weather Briefing
- ___ Purpose of IR training for PVT pilots
- ___ Instrument Scan and Interpretation
- ___ Preflight Assessment (Envir. Factors)
- ___ Emergency Procedures on Takeoff
- ___ Use of Departure and Approach Control
- ___ Pilotage
- ___ Dead Reckoning
- ___ Diversion to an Alternate Airport
- ___ Lost Procedures
- ___ Postflight Procedures

INTRODUCTION

- ___ Cross-Country Departure to 1st Checkpoint
- ___ Straight and Level Flight (IR)
- ___ Turns to Headings (IR)
- ___ Recovery from Unusual Attitudes (IR)
- ___ Emergency Descent
- ___ Short Field Takeoff and Climb
- ___ Short Field Approach and Landing
- ___ Soft Field Takeoff and Climb
- ___ Soft Field Approach and Landing

COMPLETION STANDARDS

The student will demonstrate the knowledge, risk management, and skill to describe conduct all lesson tasks. During VFR flight the student will maintain altitudes +/- 100', headings +/- 10⁰, and airspeeds +/- 10 knots. During IR flight the student will maintain altitudes +/- 200', headings +/- 20⁰, and airspeeds +/- 10 knots.

DATE: _____ DUAL: _____ IR: _____ BRIEF: _____
_____ STUDENT NAME / SIGNATURE
_____ CFI NAME / SIGNATURE / CFI # & EXP.
_____ ROUTE OF FLIGHT
LANDINGS & LOCATION: _____
Lesson Grade _____

**STAGE II
FLIGHT LESSON 16
DUAL – DAY- CROSS COUNTRY**

- A. Preflight Briefing
- B. Flight Lesson
- C. Post-flight Briefing and Critique

LESSON OBJECTIVE

During this lesson the student will combine previously learned knowledge and skills to safely conduct a VFR Day cross-country flight. The student will plan and conduct a cross-country flight to three (3) airports with the first leg of not less than 50 NM from the home airport.

CONTENT

REVIEW

- ___ Review of Previous Lesson
- ___ Outcome/Goals
- ___ Obtain a FSS Weather Briefing
- ___ Human Factors
- ___ National Airspace System
- ___ Preflight Assessment (Ext. Press.)
- ___ Short-Field Takeoff and Climb
- ___ Navigation Log Preparation
- ___ Radio Comms, Nav Sys, & Radar Svcs
- ___ Flight Planning Considerations
- ___ Departure
- ___ Opening and Closing Flight Plan
- ___ Recovery From Unusual Attitudes (IR)
- ___ Emergency Approach and Landing (Sim)
- ___ Emergency Equip. and Survival Gear
- ___ Pilotage
- ___ Dead Reckoning
- ___ Lost Procedures
- ___ Radio Comms, Nav. Sys and Radar Svcs
- ___ No-Flap Landing
- ___ Go-Around/Rejected Landing

INTRODUCTION

- ___ Estimated Groundspeed and ETA
- ___ Unfamiliar Airport Operations
- ___ Diversion to/Landing at an Alternate
- ___ Landing Not Less Than 50 NM from Departure Airport

COMPLETION STANDARDS

The student will demonstrate correct techniques and procedures for safely conducting a day VFR cross-country flight. The student will demonstrate single-pilot resource management and improved ADM. Altitudes will be maintained +/- 100', headings +/- 10°, and airspeeds +/-5 knots.

DATE: ___/___/___ DUAL: ___ IR: ___ BRIEF: ___
_____ STUDENT NAME / SIGNATURE
_____ CFI NAME / SIGNATURE / CFI # & EXP.
_____ ROUTE OF FLIGHT
LANDINGS & LOCATION: _____
Lesson Grade _____

**STAGE II
FLIGHT LESSON 17
DUAL-NIGHT-LOCAL TO AN ARPT**

- A. Preflight Briefing
- B. Flight Lesson
- C. Post-flight Briefing and Critique

LESSON OBJECTIVE:

The student will review and increase knowledge, risk management and skill with night flight operations, with emphasis on proper preflight planning, increased use of navigation equipment and ATC resources, CFIT avoidance, and human factors. *The student will obtain a minimum 1.2 hours of night aeronautical experience. The lesson must include a minimum of 1.0 ground briefing time in preparation for Night Operations*

CONTENT:

REVIEW

- ___ Review of Previous Lesson Outcome/Goals
- ___ Night Flight Preparation
- ___ Personal Equipment
- ___ Obtain a FSS Weather Briefing
- ___ Taxiing
- ___ Use of Obstacle Departure Procedures
- ___ Human Factors (Spatial Dis/ Ldg Illsns)

INTRODUCTION (NIGHT)

- ___ Emergency Equip. and Survival Gear
- ___ Preflight Assessment
- ___ Cockpit Management
- ___ Before Takeoff Check
- ___ Normal Takeoff and Climb
- ___ VOR Orientation and Tracking
- ___ GPS Orientation and Tracking
- ___ Power-Off Stall (Imminent)
- ___ Power-On Stall (Imminent)
- ___ Pilotage
- ___ Dead Reckoning
- ___ Diversion to an Alternate
- ___ Lost Procedures

- ___ Emergency Procedures
- ___ Basic Instrument Maneuvers (IR)
- ___ Recovery From Un. Attitudes (IR)
- ___ Emergency Appch and Ldg (Sim)
- ___ Go-Around/Rejected Landing
- ___ Normal Approach and Landing
- ___ Normal Approach and Landing (Without Landing Light)

COMPLETION STANDARDS

The student will demonstrate knowledge, risk management and skill for all listed tasks, complete a minimum of five (5) takeoffs and landings from the traffic pattern, and maintain altitudes +/- 100', headings +/- 10°, and airspeeds +/- 5 knots. *The student will obtain a minimum 1.2 hours of night aeronautical experience.*

DATE: ___/___/___ DUAL: ___ IR: ___ BRIEF: ___	
_____ STUDENT NAME / SIGNATURE	
_____ CFI NAME / SIGNATURE / CFI # & EXP.	
_____ ROUTE OF FLIGHT	_____ NIGHT
# LANDINGS & LOCATION: _____	
Lesson Grade _____	

**STAGE II
FLIGHT LESSON 18
DUAL-NIGHT-CROSS COUNTRY**

- A. Preflight Briefing
- B. Flight Lesson
- C. Post-flight Briefing and Critique

LESSON OBJECTIVE

During this lesson the student will combine previously learned knowledge and skills to safely conduct a VFR night cross-country flight. The flight will be conducted to three (3) airports with the first leg at least 50 NM from the departure airport, and a total distance of more than 100 NM for the entire flight.

CONTENT

REVIEW

- ___ Review of Previous Lesson
- ___ Outcome/Goals
- ___ Obtain a FSS Weather Briefing
- ___ Night Preparation
- ___ Human Factors
- ___ Flight Planning Considerations
- ___ National Airspace System
- ___ Preflight Assessment (Ext. Press.)
- ___ Navigation Log Preparation
- ___ Radio Comms, Nav Sys, & Radar Svcs (VR/IR)
- ___ Departure
- ___ Determination of Groundspeed/ETA
- ___ Filing, Opening and Closing Flight Plan
- ___ Recovery From Unusual Attitudes (IR)
- ___ Basic Attitude Instrument Manuevers
- ___ Emergency Appch and Landing (Sim)
- ___ Emergency Equip. and Survival Gear
- ___ Pilotage
- ___ Dead Reckoning
- ___ Lost Procedures
- ___ Go-Around/Rejected Landing
- ___ Normal Takeoff and Climb
- ___ Go-Around/Rejected Landing
- ___ Normal Approach and Landing

COMPLETION STANDARDS

The student will safely conduct a night VFR cross-country flight, and a minimum five (5) night takeoffs and landings as PIC while maintaining altitudes +/- 100', headings +/- 10°, and airspeeds +/-5 knots. Minimum of 0.3 simulated instrument time. **NOTE: Conduct IR time AFTER completing all VFR legs. Ensure the student has completed a minimum 10 night takeoffs & landings from the traffic pattern, 3.0 hours dual cross-country, and 3.0 hours night flight.**

DATE: _____			DUAL: _____			IR: _____			BRIEF: _____		
STUDENT NAME / SIGNATURE _____											
CFI NAME / SIGNATURE / CFI # & EXP. _____											
ROUTE OF FLIGHT _____				X-COUNTRY _____				NIGHT _____			
# LANDINGS & LOCATION: _____											
Lesson Grade: _____											

**STAGE II
FLIGHT LESSON 19
DUAL — LOCAL (DAY/NIGHT OPTION)**

- A. Preflight Briefing
- B. Flight Lesson
- C. Post-flight Briefing and Critique

LESSON OBJECTIVE

In preparation for the upcoming stage check the student will demonstrate proficiency at a level that meets current FAA Airman Certification Standards. The student will demonstrate the ability to safely and competently plan and execute a cross-country VFR flight without instructor assistance. *NOTE: The FAA Private Pilot Knowledge Test must be completed before the student is eligible for the stage II check.*

CONTENT REVIEW

- ___ Pilot Qualifications
- ___ Airworthiness Requirements
- ___ Performance and Limitations
- ___ Aircraft Weight and Balance
- ___ National Airspace System
- ___ Cross-Country Flight Planning
- ___ Weather Information
- ___ Operation of Systems
- ___ Human Factors
- ___ Night Preparation
- ___ Preflight Assessment
- ___ Cockpit Management
- ___ Comms & Light Gun Signals
- ___ Taxiing
- ___ Before Takeoff Check
- ___ Normal Takeoff & Climb
- ___ Short Field Takeoff & Climb
- ___ Soft Field Takeoff & Climb
- ___ Pilotage and Dead Reckoning
- ___ Traffic Patterns
- ___ Spin Awareness
- ___ Basic Instrument Maneuvers (IR)
- ___ Diversion
- ___ Nav. Systems and Radar Svcs (VR/IR)

- ___ Lost Procedures
- ___ Emergency Descent
- ___ Emergency Equip. & Survival Gear
- ___ Systems and Equipmt. Malfunction
- ___ Emergency Approach and Landing
- ___ Forward Slip to a Landing
- ___ Normal Approach and Landing
- ___ Short Field Approach and Landing
- ___ Soft Field Approach and Landing
- ___ No-Flap Landing
- ___ Go-Around/Rejected Landing
- ___ Postflight Procedures

COMPLETION STANDARDS

The student demonstrates the ability to safely conduct a solo cross-country flight. Knowledge, flight proficiency and aeronautical decision-making is demonstrated at a level that meets or exceeds current FAA Private Pilot Airman Certification Standards.

DATE: _____ DUAL: _____ IR: _____ BRIEF: _____
STUDENT NAME / SIGNATURE _____
CFI NAME / SIGNATURE / CFI # & EXP. _____
ROUTE OF FLIGHT _____
LANDINGS & LOCATION: _____
Lesson Grade _____

**STAGE II
FLIGHT LESSON 20, STAGE CHECK
DUAL — LOCAL TO AN AIRPORT**

- A. Oral Exam
- B. Pre-Flight Briefing and Flight
- C. Post-flight Briefing and Evaluation

- ___ Traffic Patterns
- ___ Forward Slip to a Landing
- ___ Normal Approach and Landing
- ___ Short Field Approach and Landing
- ___ No-Flap Approach and Landing
- ___ Go-Around/Rejected Landing
- ___ Postflight Procedures

LESSON OBJECTIVE

The Chief Flight Instructor or designee will evaluate the student’s ability to demonstrate the knowledge, risk management ability and skill required to safely conduct cross-country flight as Pilot In Command.

COMPLETION STANDARDS

This lesson is complete when the student demonstrates the demonstrate the knowledge, risk management ability and skill required to safely conduct cross-country flight as Pilot In Command at a level that meets or exceeds current FAA Private Pilot Airman Certification Standard.

CONTENT

ORAL

- ___ Pilot Qualifications
- ___ Airworthiness Requirements
- ___ Performance and Limitations
- ___ Aircraft Weight and Balance
- ___ National Airspace System
- ___ Cross-Country Flight Planning
- ___ Weather Information
- ___ Operation of Systems
- ___ Human Factors
- ___ Night Preparation

FLIGHT

- ___ Preflight Assessment
- ___ Cockpit Management
- ___ Comms & Light Gun Signals
- ___ Taxiing
- ___ Before Takeoff Check
- ___ Normal Takeoff & Climb
- ___ Short Field Takeoff & Climb
- ___ Pilotage and Dead Reckoning
- ___ Spin Awareness
- ___ Basic Instrument Maneuvers (IR)
- ___ Diversion
- ___ Nav. Systems and Radar Svcs (VR/IR)
- ___ Lost Procedures
- ___ Emergency Descent
- ___ Emergency Equip. & Survival Gear
- ___ Systems and Equipmt. Malfunction
- ___ Emergency Approach and Landing

DATE: _____ DUAL: _____ IR: _____ BRIEF: _____
_____ STUDENT NAME / SIGNATURE
_____ CFI NAME / SIGNATURE / CFI # & EXP.
_____ ROUTE OF FLIGHT
LANDINGS & LOCATION: _____
Lesson Grade _____

STAGE III

STAGE III OBJECTIVES

During this stage, the student will gain additional proficiency in local and cross-country solo operations in preparation for the end-of-course stage check and the FAA Practical Test.

STAGE III COMPLETION STANDARDS

This stage and the course will be complete when the student completes the end-of-course stage check by exhibiting the knowledge, risk management and flying skills at a level that exceeds current FAA Private Pilot Airman Certification Standards.

**STAGE III
FLIGHT LESSON 21
SOLO — LOCAL (25nm OPTION)**

- A. Preflight Briefing
- B. Flight Lesson
- C. Post-flight Briefing and Critique

LESSON OBJECTIVE

The student will practice the listed tasks in preparation for the solo cross-country flight. Emphasis is placed on single pilot resource management and cockpit management while conducting the flight as Pilot In Command.

NOTE: To exercise the 25NM solo option to land at another airport, the CFI must ensure that ALL requirements of 61.93(b) have been met.

CONTENT

REVIEW

- ___ Review of Previous Lesson
- ___ Outcome/Goals
- ___ Traffic Patterns
- ___ Comms and ATC Light Signals
- ___ Emergency Procedures
- ___ Cockpit Resource Management
- ___ Single Pilot Resource Management
- ___ Preflight Assessment
- ___ Short-Field Takeoff and Climb
- ___ Soft-Field Takeoff and Climb
- ___ Traffic Pattern Operations
- ___ Maneuvering During Slow Flight
- ___ Steep Turns
- ___ Power-Off Stall (Imm. & Full)
- ___ Power-On Stall (Imm. & Full)
- ___ Turning Stall (Imm. & Full)
- ___ Go-Around/Rejected Landing
- ___ Short-Field Approach and Landing
- ___ Soft-Field Approach and Landing
- ___ Postflight Procedures

COMPLETION STANDARDS

This lesson is complete when the student demonstrates aeronautical decision making, single pilot resource management, proper navigation procedures, and safe execution of traffic pattern entries and exits during solo flight.

DATE: _____ SOLO: _____ BRIEF: _____
STUDENT NAME / SIGNATURE _____
CFI NAME / SIGNATURE / CFI # & EXP. _____
ROUTE OF FLIGHT _____
LANDINGS & LOCATION: _____
Lesson Grade _____

**STAGE III
FLIGHT LESSON 22
DUAL – CROSS COUNTRY**

Preflight Briefing

- A. Flight Lesson
- B. Post-flight Briefing and Critique

LESSON OBJECTIVE

The student will demonstrate the knowledge, risk management and skill required to plan and safely conduct a cross-country flight as PIC. The flight must include a landing at three (3) different airports, with one leg of the route flown to an airport not less than 50 NM from the departure airport.

CONTENT

REVIEW

- ___ Review of Previous Lesson Outcome/Goals
- ___ Pilot Qualifications
- ___ Airworthiness Requirements
- ___ Performance and Limitations
- ___ Aircraft Weight and Balance
- ___ National Airspace System
- ___ Cross-Country Flight Planning
- ___ Weather Information
- ___ Operation of Systems
- ___ Human Factors
- ___ Preflight Assessment
- ___ Cockpit Management
- ___ Comms & Light Gun Signals
- ___ Taxiing
- ___ Before Takeoff Check
- ___ Normal Takeoff & Climb
- ___ Short Field Takeoff & Climb
- ___ Pilotage and Dead Reckoning
- ___ Traffic Patterns
- ___ Spin Awareness
- ___ Basic Instrument Maneuvers (IR)
- ___ Diversion
- ___ Nav. Systems and Radar Svcs (VR/IR)
- ___ Lost Procedures

- ___ Emergency Descent
- ___ Emergency Equip. & Survival Gear
- ___ Systems and Equipmt. Malfunction
- ___ Emergency Approach and Landing
- ___ Forward Slip to a Landing
- ___ Normal Approach and Landing
- ___ Short Field Approach and Landing
- ___ Go-Around/Rejected Landing
- ___ Postflight Procedures

COMPLETION STANDARDS

The student will have demonstrated the knowledge, flight proficiency and aeronautical decision making required to plan and safely conduct a cross-country flight as PIC at a level that meets or exceeds current FAA Private Pilot Airman Certification Standards.

DATE: ___/___/___ DUAL: ___ IR: ___ BRIEF: ___	
_____ STUDENT NAME / SIGNATURE	
_____ CFI NAME / SIGNATURE / CFI # & EXP.	
_____ ROUTE OF FLIGHT	_____ X-COUNTRY
# LANDINGS & LOCATION: _____	
Lesson Grade _____	

**STAGE III
FLIGHT LESSON 23
SOLO — CROSS COUNTRY**

- A. Preflight Briefing
- B. Flight Lesson
- C. Post-flight Briefing and Critique

LESSON OBJECTIVE

During this lesson the student will execute sound ADM and flying skills to conduct a solo cross-country flight. The route must be at least 100 NM and include a landing at three (3) different airports, with one leg of the route not less than 50 NM between takeoff and landing locations. The student shall complete the navigation log for the post-flight briefing and the navigation log shall be kept in the student's training folder.

CONTENT

REVIEW

- ___ Pilot Qualifications
- ___ Airworthiness Requirements
- ___ Performance and Limitations
- ___ Aircraft Weight and Balance
- ___ Cross-Country Flight Planning
- ___ Weather Information
- ___ Human Factors
- ___ Preflight Assessment
- ___ Cockpit Management
- ___ Engine Starting
- ___ Taxiing
- ___ Before Takeoff Check
- ___ Normal Takeoff & Climb
- ___ Short Field Takeoff & Climb
- ___ Pilotage and Dead Reckoning
- ___ Traffic Patterns
- ___ Nav. Systems and Radar Svcs
- ___ Emergency Equip. & Survival Gear
- ___ Forward Slip to a Landing
- ___ Normal Approach and Landing
- ___ Short Field Approach and Landing
- ___ Postflight Procedures

COMPLETION STANDARDS

The lesson is complete when the student completes the flight at a level that meets or exceeds current FAA Private Pilot Airman Certification Standards. *Upon arrival at the home airport the instructor and student shall review the completed navigation log during the post flight briefing and the navigation log shall be inserted in the student's training folder.*

DATE: ___/___/___		SOLO: _____		BRIEF: _____	
STUDENT NAME / SIGNATURE _____					
CFI NAME / SIGNATURE / CFI # & EXP. _____					
ROUTE OF FLIGHT _____			X-COUNTRY _____		
# LANDINGS & LOCATION: _____					
Lesson Grade _____					

**STAGE III
FLIGHT LESSON 24
DUAL — LOCAL TO AN AIRPORT**

- A. Preflight Briefing
- B. Flight Lesson
- C. Post-flight Briefing and Critique

LESSON OBJECTIVE

The student will practice the listed tasks and demonstrate aeronautical knowledge, flight proficiency and decision making skills at a level that exceeds current FAA Private Pilot Airman Certification Standards.

**CONTENT
REVIEW**

- ___ Pilot Qualifications
- ___ Airworthiness Requirements
- ___ Performance and Limitations
- ___ Aircraft Weight and Balance
- ___ National Airspace System
- ___ Weather Information
- ___ Operation of Systems
- ___ Human Factors
- ___ Preflight Assessment
- ___ Cockpit Management
- ___ Comms & Light Gun Signals
- ___ Taxiing
- ___ Before Takeoff Check
- ___ Normal Takeoff & Climb
- ___ Short Field Takeoff & Climb
- ___ Soft Field Takeoff & Climb
- ___ Basic Instrument Maneuvers (IR)
- ___ Nav. Systems and Radar Svcs (VR/IR)
- ___ Ground Reference Maneuvers (All)
- ___ Forward Slip to a Landing
- ___ Normal Approach and Landing
- ___ Short Field Approach and Landing
- ___ Soft Field Approach and Landing
- ___ No-Flap Approach and Landing
- ___ Go-Around/Rejected Landing
- ___ Postflight Procedures

COMPLETION STANDARDS

The lesson is complete when the student is able to demonstrate aeronautical knowledge, risk management and flying skills at a level that *exceeds* current FAA Private Pilot Airman Certification Standards.

DATE: ___/___/___ DUAL: _____ IR: _____ BRIEF: _____
_____ STUDENT NAME / SIGNATURE
_____ CFI NAME / SIGNATURE / CFI # & EXP.
_____ ROUTE OF FLIGHT
LANDINGS & LOCATION: _____
Lesson Grade _____

**STAGE III
FLIGHT LESSON 25
DUAL — LOCAL TO AN AIRPORT**

- A. Preflight Briefing
- B. Flight Lesson
- C. Post-flight Briefing and Critique

LESSON OBJECTIVE

This is the final lesson prior to the end-of-course stage check. The student will demonstrate aeronautical knowledge, flight proficiency and decision making at a level that exceeds current FAA Private Pilot Airman Certification Standards.

CONTENT

REVIEW

- ___ Certificates and Documents
- ___ Airworthiness Requirements
- ___ Human Factors
- ___ Preflight Assessment
- ___ Taxiing
- ___ Before Takeoff Check
- ___ Steep Turns
- ___ Power-On Stall (Imminent & Full)
- ___ Power-Off Stall (Imminent & Full)
- ___ Slow Flight
- ___ Spin Awareness
- ___ Navigation Systems and Radar Svcs
- ___ Emergency Descent
- ___ Emergency Approach and Ldg (Sim)
- ___ Short-Field Approach and Landing
- ___ Soft-Field Approach and Landing
- ___ Postflight Procedures

COMPLETION STANDARDS

The lesson is complete when the student is able to conduct all listed tasks at a level that *exceeds* current FAA Private Pilot Airman Certification Standards.

DATE: _____ DUAL: _____ BRIEF: _____
_____ STUDENT NAME / SIGNATURE
_____ CFI NAME / SIGNATURE / CFI # & EXP.
_____ ROUTE OF FLIGHT
LANDINGS & LOCATION: _____
Lesson Grade _____

**STAGE III
FLIGHT LESSON 26, EOC STAGE CHECK
DUAL-LOCAL TO AN AIRPORT**

- A. Oral Exam
- B. Pre-Flight Briefing and Flight
- C. Post-flight Briefing and Evaluation

LESSON OBJECTIVE

This lesson is the End-of Course test conducted by the Chief Flight Instructor or designee. The student will demonstrate aeronautical knowledge, flight proficiency and decision making at a level that exceeds current FAA Private Pilot Airman Certification Standard.

CONTENT

ORAL

- ___ Pilot Qualifications
- ___ Airworthiness Requirements
- ___ Performance and Limitations
- ___ Aircraft Weight and Balance
- ___ National Airspace System
- ___ Cross-Country Flight Planning
- ___ Weather Information
- ___ Operation of Systems
- ___ Human Factors
- ___ Night Preparation

FLIGHT

- ___ Preflight Assessment
- ___ Cockpit Management
- ___ Comms & Light Gun Signals
- ___ Taxiing
- ___ Before Takeoff Check
- ___ Normal Takeoff & Climb
- ___ Soft Field Takeoff and Climb
- ___ Short Field Takeoff & Climb
- ___ Pilotage and Dead Reckoning
- ___ Traffic Patterns
- ___ Ground Reference Maneuvers
- ___ Maneuvering During Slow Flight
- ___ Power Off Stall (Imminent or Full)
- ___ Power On Stall (Imminent or Full)
- ___ Spin Awareness

- ___ Basic Instrument Maneuvers (IR)
- ___ Steep Turns
- ___ Diversion
- ___ Nav. Systems and Radar Services (VR/IR)
- ___ Lost Procedures
- ___ Emergency Descent
- ___ Emergency Equip. & Survival Gear
- ___ Systems and Equipmt. Malfunction
- ___ Emergency Approach and Landing
- ___ Forward Slip to a Landing
- ___ Normal Approach and Landing
- ___ Soft Field Approach and Landing
- ___ Short Field Approach and Landing
- ___ Go-Around/Rejected Landing
- ___ Postflight Procedures

COMPLETION STANDARDS

This lesson is complete when the student demonstrates knowledge, flight proficiency and aeronautical decision making skill at a level that *exceeds* current FAA Private Pilot Airman Certification Standard.

DATE: ___/___/___ DUAL: ___ IR: ___ BRIEF: ___

STUDENT NAME / SIGNATURE

CFI NAME / SIGNATURE / CFI # & EXP.

ROUTE OF FLIGHT

LANDINGS & LOCATION: _____

Lesson Grade _____