



United Flight Services

Private Pilot Syllabus

Materials Needed:

- FAR/AIM
- Pilot's Operating Handbook
- Airplane Flying Handbook
- Pilots Handbook of Aeronautical Knowledge
- Private Pilot Oral Guide and PTS

Optional Materials:

Rod Machado Private Pilot Handbook

	Ground	Dual	Solo
Stage 1 - Discovering Flight	1	1	
Stage 2 - Preflight, PIC, Aerodynamics	1	1	
Stage 3 - Basic Maneuvers, Stability	1	1	
Stage 4 - Stalls, Ground Reference	1	1	
Stage 5 - Patterns, POH & Systems, Collision Avoidance	1	1	
Stage 6 - Airplane & Enginge, Slips	1	1	
Stage 7 - Go/No-Go, Aeromedical Factors	1	1	
Stage 8 - Spins, Emergencies, Pre-Solo	1	2	
Stage 9 - Instruments	1	1	
Stage 10 - FAR's, Endorsements, Solo	1	0.5	0.5
Stage 11 - Solo		1	0.5
Stage 12 - Sectionals, Maneuvers, Solo	1	1	1
Student will fly solo for between the next 5 stages			
Stage 13 - Short Field T/O and Ldg, Publications	1	1	1
Stage 14 - Soft Field T/O and Ldg, Class D Operations	1	2	1.5
Stage 15 - Class C Operations, Hood Work	1	1	1.5
Stage 16 - Flight Planning, Weather	1	1	2
Stage 17 - Weight & Balance, Weather Briefing	1	2	2
Stage 18 - Flight Plan, Solo Xcountry Endorsement	1	2	2
Stage 19 - Night Operations	1	2	
Stage 20 - Flight Plan, Private Privleges & Limitations	1		3
Stage 21 - PTS, Oral review	1	1.5	
Total Estimated Time:			
	20	25	15

Stage 1

Reading

FAR/AIM 91
Airplane Flying Handbook Ch2
Pilots Hndbk of Aero Knowledge Ch6 (6-14)
Pilot's Operating Handbook Sect1

Ground - 1 hr

Introduction to flight training.
Aircraft preflight.
Collision avoidance and right-of-way.
Positive exchange of flight controls.
Cockpit management.

Dual Flight - 1 hr

Checklist familiarization.
Taxi and runup.
Demonstrate takeoff procedure.
Demonstrate flight control functions: ailerons (roll), power (climb/descend), elevator (airspeed), trim, and flaps.
5-10 minutes free time.
Demonstrate traffic pattern.
Demonstrate landing.
Student makes first unassisted takeoff.
Student controls power for landing.

Stage 2

Reading

Airplane Flying Handbook Ch3 (3-1 to 3-4, 3-10)
Pilots Hndbk of Aero Knowledge Ch1 (1-1 to 1-18)
Pilot's Operating Handbook Sect4
Rod Machado B1-6

Ground - 1 hr

Aircraft documents: maintenance and inspections.
Aircraft preflight.
Postflight procedures.
Takeoffs and climbs.
Forces acting on the airplane in flight.
Responsibility of the Pilot in Command (PIC).

Dual Flight - 1 hr

Student makes takeoff.
Climb to 3000', 30° bank turns.
Demonstrate climb/level off and descent/level off (straight ahead and turning).
Demonstrate rudder coordination.
5-10 minutes free time.
Power off glide - trim.
Follow river 600-800'.
2-3 landings.

Stage 3

Reading

Airplane Flying Handbook Ch4 and Ch5 (5-1)
Pilots Hndbk of Aero Knowledge Ch1 (1-9 to 1-17)
Rod Machado B34-36

Ground - 1 hr

Basic fight maneuvers.
Slow flight.
Torque.
Airplane stability.
Supervise pre-flight.
Situational Awareness

Dual Flight - 1 hr

Climb to 3,000' towards Moss Landing.
30° bank turns
Introduce 45° bank turns
Slow flight with and w/o flaps, level and 20-30° bank turns.
2-3 landings.

Stage 4

Reading

FAR/AIM 4-3
Airplane Flying Handbook Ch5 (5-2), Ch6 (6-1), Ch7 (7-1 to 7-3, 7-11)
Pilot's Operating Handbook Sect3
Rod Machado B14-19, G7-15

Ground - 1 hr

Stalls
Ground reference maneuvers.
Load factor.
Introduce to radio.
Introduce to traffic patterns.
Emergency procedures

Dual Flight - 1 hr

Student begins use of radio in flight.
Introduce to stall orientation and recovery
Forced landing procedure (MBA).
Ground reference maneuvers (S turns and turns about a point)
2-3 landings.

Stage 5

Reading

FAR/AIM 4-3
Airplane Flying Handbook Ch8
Pilots Hndbk of Aero Knowledge Ch6 (6-14 to 6-14)
Pilot's Operating Handbook Sect1, 2, 4, and 7
Rod Machado C15-24; G7-15; G24-27; L46-50

Ground - 1 hr

Airport traffic patterns.
Approaches and landings.
POH: general, limitations, normal procedures, airplane and systems
Collision avoidance, windshear avoidance, and wake turbulence avoidance

Dual Flight - 1 hr

45° bank power turns with reversals.
Slow flight.
Approach and departure stall recoveries.
Forced landing.
Ground reference maneuvers.
2-3 landings.

Stage 6

Reading

Airplane Flying Handbook Ch7 (7-8)
Pilots Hndbk of Aero Knowledge Ch2
Rod Machado B14-19; C1-15; N14-15

Ground - 1 hr

Airplanes, engines, and systems.
Slips (forward and side)

Dual Flight - 1 hr

Review turning slow flight.
Review turning stall and recovery.
Introduce skids & slips, forward & side.

Stage 7

Reading

FAR//AIM 7-1 and 8-1
Pilots Hndbk of Aero Knowledge Ch2 (2-18 to 2-22), Ch5, and Ch9

Ground - 1 hr

Aeronautical decision making.
Aero-medical factors.
Weather

Dual Flight - 1 hr

Review stall recovery from slips & skids.
Ground reference maneuvers.

Stage 8

Reading

FAR/AIM 61
Airplane Flying Handbook Ch5 (5-11 to 5-12) and Ch12 Review
Pilot's Operating Handbook Sect3
Rod Machado B37

Ground - 1 hr

Review spins.
Review emergency operations.
Review pre-solo written.
Review solo requirements.

Dual Flight - 2 hr

Left downwind departure and climb to 3,500'
Strange airport entry procedure (South County), 3-4 landings.
Return to Watsonville - introduce basic instrument procedures (turns, descents, & climbs)
Spin recovery - demonstrate, then student completes 3 turn spin.
Forced landing from 3,000' to WVI.

NOTE - medical exam must be completed in next 2 stages.

Stage 9

Reading

Airplane Flying Handbook Ch9 and Ch11
Pilots Hndbk of Aero Knowledge Ch3
Rod Machado E1-36

Ground - 1 hr

Flight instruments.
Flight by reference to instruments.
Schedule stage check.

Dual Flight - 1 hr

4 engine failures in traffic pattern.
2 go-arounds.
2 electrical failures in traffic pattern.

**Stage 10
First Supervised Solo!**

Ground - 1 hr

Review records & compliance w/ FARs.
Review endorsements.

Dual - .5 hr & Solo Flight - .5 hr

3 dual takeoffs & landings - taxi-backs.
3 solo takeoffs & landings - taxi-backs.

COMPLETE PRE SOLO STAGE CHECK BEFORE NEXT STAGE!

**Stage 11
Second Supervised Solo!**

Dual - 1 hr & Solo Flight - .5 hr

2 dual takeoffs & landings.
1 go-around.
1 engine failure, laning on Rwy 26.
1 electrical failure.
5 solo touch and go landings.

**Stage 12
Third Supervised Solo!**

Reading

Pilots Hndbk of Aero Knowledge Ch7 and Ch8 (8-1 to 8-5)

Ground - 1 hr

Introduce sectionals.
Review local training area.
Review first 10 hours of student solo traing. Give student all maneuvers for first 10 ours of local solo practice.

Dual - 1 hr & Solo Flight - 1 hr

Student makes proper entry into traffic pattern.
1 solo touch and go landing.
30mins solo time in local training area.

NOTE - student flies solo between next 5 stages.

Stage 13

Reading

Airplane Flying Handbook Ch3 (3-6) and Ch7 (7-14)
Pilots Hndbk of Aero Knowledge Ch7 and Ch8 (8-1 to 8-5)
Rod Machado O1-26; Ch J

Ground - 1 hr

Short field takeoffs and landings.
Publications: AFD, sectionals.

Dual Flight - 1 hr

Introduce short field takeoffs & landings.
Clearing turns.
Medium and steep turns.
Slow flight.
Power off stall straight ahead.
1-2 landings.

Stage 14

Reading

FAR/AIM 3-2
Airplane Flying Handbook Ch3 (3-7) and Ch7 (7-15)
Rod Machado L19-21

Ground - 1 hr

Soft field takeoffs and landings.
Class D airspace - SNS.
Airport operations.

Dual Flight - 2 hr

.5 hour IFR hood.
Frazier Lake - 2 soft field takeoffs & landings.
Introduce to Class D - SNS.
Introduce VOR tracking back to WWI

Stage 15

Ground - 1 hr

Radar and air traffic control.
Radio procedures.
Lost procedures and diversion.

Dual Flight - 1 hr

Introduce to Class C - MRY.
Short & soft field takeoffs and landings.
IFR hood work.

Stage 16

**Night cross-country
WVI-MOD/OAK-overfly SJC-WVI**

Reading

FAR/AIM 7-1
Airplane Flying Handbook Ch10
Pilots Hndbk of Aero Knowledge Ch5, Ch6 (6-4 to 6-8), and Ch8
Pilots Operating Handbook Sect5
Rod Machado I22-24; Ch H; M1-38; Q8-10; Ch P

Ground - 1 hr

Flight plan, weather briefing.
Aircraft performance charts.
Night operations.

Dual Flight - 1 hr

Flight following.
VFR navigation.
1 hour hood (MOD-SJC)
Lost procedure using VOR's, MRY Approach radar.

Stage 17

**Dual cross-country
WVI-SNS-PXN-FAT**

Reading

Airplane Flying Handbook Ch5 (5-14)
Pilots Hndbk of Aero Knowledge Ch4
Pilot's Operating Handbook Sect5 and 6

Ground - 1 hr

Weight and balance.
Weather briefing.
Flight plan (airplane performance, weight & balance, wind correction)

Dual Flight - 2 hr

True air and ground speed calculations.
Navigation by pilotage, dead-reckoning, and VOR.
Flight following.
Lunch in FAT.
Student plans FAT-Gustine (don't land)-MOD with no assistance from instructor.
Student completes flight on his/her own - instructor only observes for later critique. If successful, then student is ready for solo cross-country.
Return to WVI via MOD 210° radial; .5 hour IFR.
Pull hood - student has 15 minutes to find WVI and land.

**COMPLETE PRE SOLO X-COUNTRY STAGE CHECK BEFORE
NEXT STAGE!**

Stage 18

**1st Solo cross-country
WVI-PRB-SNS/MRY-WVI**

Ground - 1 hr

Review flight plan.
Solo cross-country endorsements.

Dual Flight - 2 hr

WVI-PRB-SNS/MRY/WVI

Stage 19

**Complete night training
(2 hours, 10 landings)**

Ground - 1 hr

Review night operations.

Dual Flight - 2 hr

Takeoff and climb to 4,500' towards Santa Cruz

45° bank turns, 360° in each direction.

Stall recovery.

.2 hours hood time, unusual attitude recoveries.

Return to WVI without help.

Complete landings, last landing with complete electrical failure.

Stage 20

**2nd Solo cross-country (150nm)
WVI-SCK-MER-WVI**

Reading

FAR/AIM 61, 91

Ground - 1 hr

Review flight plan, systems, aerodynamics.

Private pilot privileges and limitations.

Solo Flight - 3 hr

WVI-SCK-MER-WVI

COMPLETE PRE CHECKRIDE STAGE CHECK!

Stages 21

Ground - 1 hr

Review PTS and POH.

Review for oral exam.

Dual Flight - 1.5 hr

Prep for checkride.

COMPLETE PAPERWORK AND REVIEW WITH EXAMINER.