The lessons below are designed as units. Each unit's time will vary with each student, and will be considered complete once the student is proficient with each item. A student is considered proficient once the maneuver meets either the CFI's standards and/or the practical test standards published by the FAA. More than one unit can be covered per flight.

1) Dual Flight Instruction

a) Airplane, Cockpit, and Controls Familiarization
b) Introduction to Checklists
   (a) Preflight, Before Start, After Start, Before Takeoff, Climb, Cruise, Descent, Before Landing, After Landing, Shutdown, Post-Flight
c) Pilot and Passenger Briefings
d) Take Off, and Introduction to the Basic 4, Climbs, Turns, Straight and Level, and Descents.
e) Taxing, Shutdown and Securing

2) Dual Flight Instruction

a) Thorough Preflight and Checklist Usage
b) Review Lesson 1
c) Discuss Certificates and Documents required aboard
d) Taxiing and Ground Operations
e) General Awareness of Environment
   i) Intro to Radio Communication
   ii) Intro to Traffic Pattern
   iii) Intro to Situational awareness to geographic landmarks
   iv) Intro to Airport Signs and Markings / Light Signals
f) Discuss and begin to practice Special Emphasis Areas
   i) Positive aircraft control
   ii) Positive exchange of flight controls
   iii) Collision avoidance
   iv) Wake turbulence avoidance
   v) Runway incursion avoidance
   vi) Controlled Flight into Terrain
   vii) Wire Strike Avoidance
   viii) Aeronautical Decision Making
   ix) Checklist Usage
g) More detail instruction and proper usage of the propeller, throttles and flight controls
h) Taxing, Shutdown and Securing

3) Dual Flight Instruction

a) Review Lesson 2
b) Normal and Steep banked turns
c) Constant speed climbs and descents

d) Constant rate climbs and descents
e) Normal, Crosswind, and short field landings
f) Normal, Crosswind and short field takeoffs
g) Rejected Landing
h) Rejected Takeoff

4) Dual Flight Instruction

a) Preflight Inspection
b) Taxing Operations With Braking, Nose Wheel, And Differential Power
c) Normal Takeoff And Climb
d) Phases Of Flight
   i) Slow Flight
   ii) Cruise Flight
   iii) Climbs, Descents
e) Power On Stalls
f) Power Off Stalls
g) Spin Awareness

5) Dual Flight Instruction – Take Off And Landings And Engine Failures

a) Take Offs
   i) Normal
   ii) Crosswind
   iii) Short Field
   iv) Aborted
b) Landings
   i) Normal
   ii) Crosswind
   iii) Short Field
   iv) Rejected
c) Simulated Engine Failures
   i) Before Vmc
   ii) After Takeoff And After 400 AGL
   iii) Cruise
   iv) Approach

6) Dual Flight Instruction – Vmc Demo, Engine Shutdown/Startup In Flight

a) Vmc Demonstration And Recovery
b) Drag Demo With Critical Engine Failed
   i) Observe Climb Rate With Improper And Proper Aircraft Configuration
   ii) Observe Control Forces With Improper And Proper Aircraft Configuration
c) Complete Shutdown And Securing Of Critical Engine
d) Restarting And Bringing Back Online The Critical Engine
e) Simulated Feather Of Critical Engine, And Maneuvering

7) Dual Flight Instruction – Other Emergencies

a) Electrical Failure / No Flap Landing / Sim Manual Gear Extension
b) Emergency Descent
c) All Engine Failure
d) Precautionary Engine Shutdown – Over Speed, Engine Health

8) Dual Flight Instruction – Simulated IMC (3 Hours)

a) Climbs, turns, descents, turns to heading, recovery from unusual attitudes, radio communication, use of navigation systems and facilities and radar services

9) Dual Flight Instruction / Solo Flight

a) Complete Pre-Solo written Exam and Discuss
b) 2-5 Proficient Traffic Patterns DUAL
c) SOLO FLIGHT, supervised w/radio contact, at uncontrolled, low volume airport.
d) SOLO Normal Takeoff, Normal Traffic Pattern and Landings

10) Dual Flight Instruction / Solo Flight

a) Dual Review
b) SOLO Normal Takeoff and Landings
c) Taxing, Shutdown and Securing
d) Discuss and Schedule FAA Knowledge Exam (Primary Students Only)

11) Dual Flight Instruction Night Flight

a) Introduction to Night Flying (3 Hours)
b) Normal Procedures
c) Emergency Procedures
d) Discuss Human Factors
    i) Night Vision, Off Center Viewing, Reduced Depth Perception
    ii) Hypoxia
        (1) Altitude
        (2) Smoking and Drugs
        (3) Excess nitrogen from scuba diving
    iii) Hyperventilation
    iv) Spatial disorientation
    v) Motion sickness
    vi) Carbon monoxide poisoning
    vii) Stress, Fatigue, dehydration
e) Perform Landings to full stop and touchdown (at least 10)

12) Dual Cross Country Flight (3 Hours)
a) Pilotage and Dead Reckoning
b) Use of Charts, publications, performance charts
c) Review National Airspace System
d) Weather, NOTAMs, and other data collection
e) Lost Procedures, Adverse weather and Diversions

13) Dual Cross Country Flight
a) Review Lesson 12
b) Radio Navigation
c) Radar Services and Flight Following
d) GPS Navigation
e) Sectional Charts

14) Solo Cross Country (5 Hours)

15) Dual Flight Instruction – Test Prep (3 Hours)
a) Discuss and Review all Previous Lessons
b) Normal and Emergency Procedures Review
c) Discuss and Correct any deficiencies
d) Prep for FAA Practical Exam
e) Discuss Scheduling Practical Exam

16) Dual Flight Instruction – Simulated Practical Exam
a) Simulate Examiner by following FAA published Practical Test Standards book (PTS)
b) Discuss and Correct any deficiencies
c) Prepare IACRA or 8710 Form

17) Repeat any Lessons as needed / Allow student SOLO (10 Hours)

18) FAA Practical Exam