The following is a list of FAA requirements for a Private Pilot Glider certificate. Some of the items are to be taught in ground school, and some are covered in the flight portion of our training. All of these items must be covered in order to take the flight test.

1. FAR Part 1, 43, *61, *91, & NTSB 830
    a. *Eligibility Requirements
    b. *Medical Requirements
    c. *Personal Logbook
    d. FCC Station License
    e. Glider Pilot Certificates: privileges, and limitations
    f. Glider and tow pilot recency of experience requirements
    g. *Airworthiness and registration certificates
    h. *Maintenance requirements and records
    i. *General operating rules
    j. Flight rules
    k. Accident Reporting
    l. FAA Advisory Circulars

2. *Glider Flight Manual
    a. *Operating Limitations, equipment list
    b. *Performance charts, tables, and data
    c. *Weight and balance
    d. *Ballast and it's effect on performance

3. *Glider Assembly, disassembly

4. Flight Preparation and Planning
    a. *National Airspace System
    b. *Controlled airspace
    c. *Special use airspace
    d. En route checkpoints
    e. Go ahead points
    f. Using lift sources and speed between lift sources
    g. Terrain considerations
    h. Selecting landing areas
    i. Personal equipment
    j. Aeronautical Information Manual
    k. Navigation, aeronautical charts
    l. Cross country emergency procedures

5. Personal Equipment
    a. High altitude
    b. Varying Terrain
    c. Long Distances
    d. Climatic conditions
    e. Oxygen systems
    f. Parachutes

6. Flight Instruments and Associated Systems
    a. Magnetic compass
    b. *Yaw string

c. *Airspeed Indicator
d. *Altimeter
e. *Variometer
f. Inclinometer
g. Total energy compensator
h. Gyroscopic instruments
i. Electrical system
j. Landing gear
k. Avionics

7. Soaring Weather
a. *Recognition of critical weather situations and conditions suitable for soaring flight
b. *Basic VFR weather minimums

8. Pilot weather reports and forcasts
a. Procurement and use of aeronautical weather reports
b. Area and terminal
c. Winds and temperatures aloft
d. Severe weather watch bulletin
e. Surface analysis chart
f. Weather depiction chart
g. Radar summary chart
h. Composite moisture stability chart
i. Significant weather prognosis
j. Effect of density altitude and wind on performance
k. Severe weather outlook chart
l. SIGMET's and AIRMET's
m. NOTAM's
n. PIREP's
o. Wind sheer reports
p. Making go-no-go decisions based on weather

9. Stability Charts
a. Pressure and temperature lapse rates
b. Atmospheric instability
c. Thermal index
d. Thermal production
e. Cloud formation and identification
f. Frontal weather
g. Other lift sources

10. Hazards Associated With Thunderstorms

11. Preflight
a. *Line inspections
b. *Tiedown. Control lock and wheel chock removal
c. *Ice and Frost removal
d. *Written checklists
e. *Flight controls

f. *Proper assembly and disassembly
g. *Personal equipment
h. *Tow rope, weak links, towline inspection, releases.
i. *Launch equipment inspection - tow hitches, releases
j. *Structural damage
k. *Noting discrepancies
l. *Ground handling

12. Launches, Aerotow and/or Ground tows. (this syllabus covers aerotow only)
    a. *Pre-takeoff checklists
    b. *Takeoff
    c. *Aerotow, including airspeeds
    d. *High and Low tows
    e. *SIgnals
    f. *Safety precautions
    g. *Release procedures
    h. *Slack towline procedures
    i. *Boxing the propwash

13. Aerotow, Abnormal Procedures
    a. *Towplane power loss during takeoff
    b. *Towplane power failure at altitude
    c. *Glider release failure
    d. *Towline break during takeoff
    e. *Glider and towplane release failure
    f. *Porpoising

14. Precision Manuvering
    a. *Straight glides
    b. *Turns, shallow, medium, steep
    c. *Spirals
    d. *Flight at various airspeeds
    e. *Imminent forward and turning stalls
    f. *Full stalls, forward stalls
    g. *Collision avoidance
    h. *Ground reference
    i. Spin entery, spins, spin recovery technique

15. Critical Performance Speeds
    a. *Never exceed speed
    b. *Minimum sink speed
    c. *Maneuvering speed
    d. *Rough air redline
    e. *Speed to fly
    f. *Best glide speed

16. Traffic Patterns
    a. *Co-existing traffic patterns
    b. *Rules
    c. *Pre-landing checklist

d. *Collision avoidance
e. *Wake
f. *Windshear avoidance
g. Radio communications procedures

17. Normal Landings
    a. *Use of dive brakes, spoilers, and flaps
    b. *Accuracy approaches and landings
    c. *Faulty approaches
    d. *Side slips, forward slips, turning slips

18. *Crosswind Takeoffs & Landings

19. Downwind Landings

20. Off Field Landings

21. Emergency Procedures. Including
    a. Descents with high drag devices
    b. Equipment malfunctions
    c. Towline break procedures

22. Exercising Judgment
    a. Aeronautical decision making and judgment

23. Soaring Techniques
    a. *Thermal Soaring
    b. *Ridge and slope soaring
    c. Wave soaring
    d. Mountain soaring
    e. *Convergence soaring

24. Recovery From Unusual Attitudes
    a. High speed spirals
    b. Excessive bank angles
    c. Excessive pitch angles
    d. Crossed control stalls
    e. High sink rates

25. Medical Factors

26. Pre-solo Written Test

27. Flight Test
    a. Flight test requirements
    b. Written test requirements
    c. Use of distractions during flight test

ADDITIONAL FLIGHT
Control functions
Yaw string

Use of trim
Aileron drag
Shallow, medium, and steep turns
Spins
Benign spiral mode
Low "G"
Unassisted takeoffs
Landing pattern
Left and right hand landing patterns
Accuracy landings
Wheel brake
Rope breaks, land straight ahead
Rope breaks above 200 feet
No instrument flight
Radio procedures
Student training area
Flap usage

*requirements foe solo flight.