



PILOT RISE  
LLC

## Instrument Rating Syllabus

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Version 4

### **Description:**

This course prepares a private pilot for obtaining their instrument rating and being a safe and diligent pilot in and out of the clouds.

This course consists of four major parts:

- Flight training
- Ground training
- Online Ground School / Homework (Sporty's Online Ground School)
- Simulator training (this part is optional)

### **Objectives:**

1. To prepare a private pilot for flight with only the use of instruments
2. To prepare private pilots for the instrument written test
3. To instill instrument knowledge into students
4. To help private pilots earn their instrument rating

**Topics:**

**Ground Training:**

1. Private pilot review
2. Cross country planning
3. Weather
4. Instruments
5. Clearances
6. Instrument Procedures

**Flight and Simulator Training:**

1. Basic Instrument Flight
2. Instrument maneuvers
3. Instrument procedures
4. Clearances
5. Emergency operations

**Estimations:**

- Cross Country time building is not accounted for - Add the cost you would need to get 36 cross country hours (OR get this with a safety pilot while simulating instrument time (recommended)).
- If you choose not to go with a safety pilot for practice, then be sure to account for the instructor's time.

Home Study	Simulator	Flight Hours (\$77)		Sim Hours		Ground Hours (\$55) (includes preflight and post flight)	Total Cost
		Safety Pilot (instrument)	Dual (instrument)	Alone	Instruction		
<b>! DO THIS !</b>	YES	27 (23)	19 (16.5)	6	6	20	<b>\$6,000</b>
	NO	29 (24)	29.5 (25)	-	-		\$7,300
Moderate	YES	27 (23)	19 (16.5)	8	10	40	\$7,300
	NO	31 (26)	34 (29)	-	-		\$9,100
Light	YES	27 (23)	19 (16.5)	10	14	60	\$8,700
	NO	33 (28)	38 (32)	-	-		\$10,700

## Lessons:

This is a list of each lesson which will be taught. One lesson may need multiple sessions to complete, and several lessons may be completed in a single session.

Key:

Without simulator: [Flight hours | Ground hours]

With simulator: (Flight hours | Sim hours)

Lesson	Flight	Simulator (optional)	Ground	Homework
0	You will need 50 hours of cross country flight time. You should have at least 8 hours after your private. You can build this time during training, but we recommend you fly several cross countries to become a better pilot before beginning training.		<ul style="list-style-type: none"> <li>Get Sporty's Instrument Online Ground School course and complete section 1 and 2 before beginning instrument training. Completing more is better.</li> <li>TAKE DETAILED NOTES</li> <li>Review your Private Pilot notes and resources</li> </ul>	
1 [2   2] (2   0)	<ul style="list-style-type: none"> <li>Dual Cross Country Flight (to determine where you are at)</li> <li>Simulated instrument for the return flight</li> <li>Review struggling Private Pilot areas</li> </ul>		<ul style="list-style-type: none"> <li>Summary of an instrument flight</li> <li>Basic instrument flight</li> <li>Instrument resource packet</li> </ul>	<ul style="list-style-type: none"> <li>Sporty's Section 1 [2 hours]</li> <li>Sporty's Section 2 [2.5 hours]</li> <li>DETAILED NOTES</li> <li>Review your Private Pilot notes and resources</li> </ul>
2 [1.5   1.5] (1.5   0)	<ul style="list-style-type: none"> <li>Dual Simulated</li> <li>VOR practice</li> <li>Unusual attitudes</li> <li>Instrument failures</li> </ul>		<ul style="list-style-type: none"> <li>VORs</li> <li>Instrument systems</li> <li>Instrument failures</li> </ul>	<ul style="list-style-type: none"> <li>Sporty's 3.1 - 3.5 [1 hour]</li> </ul>
3 [3   2] (1   1)	<ul style="list-style-type: none"> <li>ILS Approach</li> <li>LOC Approach</li> <li>Missed Approach</li> </ul>	<ul style="list-style-type: none"> <li>BAIF</li> <li>Approaches</li> </ul>	<ul style="list-style-type: none"> <li>Instrument Approaches</li> <li>ILS and LOC</li> <li>DME Basics</li> </ul>	<ul style="list-style-type: none"> <li>Sporty's 3.6 - 3.9 [0.5 hours]</li> </ul>

<p><b>4</b> [3   1.5] (1   1)</p>	<ul style="list-style-type: none"> <li>• VOR Approach</li> <li>• VOR / DME Approach</li> </ul>	<ul style="list-style-type: none"> <li>• Review</li> <li>• Approaches</li> </ul>	<ul style="list-style-type: none"> <li>• VOR approach</li> <li>• VOR / DME approach</li> </ul>	<ul style="list-style-type: none"> <li>• Sporty's 3.10 - 3.16 [1 hour] (emphasis on holds and circling)</li> </ul>
<p><b>5</b> [3   1.5] (1   1)</p>	<ul style="list-style-type: none"> <li>• Holding</li> <li>• Practice Approach</li> </ul>	<ul style="list-style-type: none"> <li>• Holding</li> <li>• Approaches</li> </ul>	<ul style="list-style-type: none"> <li>• Holds</li> </ul>	<ul style="list-style-type: none"> <li>• Sporty's 3.17 - 3.18 [0.5 hours]</li> </ul>
<p><b>6</b> [3   1.5] (2   1)</p>	<ul style="list-style-type: none"> <li>• GPS Approach (if able)</li> <li>• DME Arc</li> <li>• Approaches</li> </ul>	<ul style="list-style-type: none"> <li>• DME Arc</li> <li>• GPS Approach</li> </ul>	<ul style="list-style-type: none"> <li>• DME Arc</li> <li>• GPS Approaches</li> <li>• GPS System</li> </ul>	<ul style="list-style-type: none"> <li>• Sporty's 4 [1.5 hours]</li> <li>• Begin Sporty's 5 [2.5 hours]</li> </ul>
<p><b>7</b> [15   1.5] (10   2)</p>	<ul style="list-style-type: none"> <li>• Safety Pilot Practice</li> </ul>	<ul style="list-style-type: none"> <li>• Approaches</li> <li>• Clearances</li> </ul>	<ul style="list-style-type: none"> <li>• Cross Country Planning</li> <li>• Clearances</li> <li>• Alternates</li> <li>• Arrivals</li> <li>• Departure Procedures</li> </ul>	<ul style="list-style-type: none"> <li>• Sporty's 5 [2.5 hours]</li> </ul>
<p><b>8</b> [15   1.5] (10   2)</p>	<ul style="list-style-type: none"> <li>• Safety Pilot Practice</li> </ul>	<ul style="list-style-type: none"> <li>• Procedures</li> </ul>	<ul style="list-style-type: none"> <li>• Weather in IFR</li> <li>• ODPs</li> <li>• SIDs</li> <li>• STARs</li> </ul>	<ul style="list-style-type: none"> <li>• STUDY FOR WRITTEN</li> </ul>
<p><b>9</b> [6   2] (6   0)</p>	<ul style="list-style-type: none"> <li>• 250nm Cross Country</li> </ul>		<ul style="list-style-type: none"> <li>• Long Cross Country</li> <li>• Test Prep</li> </ul>	<ul style="list-style-type: none"> <li>• STUDY FOR WRITTEN</li> </ul>
<p><b>10</b> [14   1] (7   2)</p>	<ul style="list-style-type: none"> <li>• Safety Pilot Practice</li> </ul>	<ul style="list-style-type: none"> <li>• Practice</li> </ul>	<ul style="list-style-type: none"> <li>• Test Prep</li> </ul>	<ul style="list-style-type: none"> <li>• Take Written Test</li> </ul>
<p><b>11</b> [5   2] (1   1)</p>	<ul style="list-style-type: none"> <li>• Dual Practice</li> </ul>	<ul style="list-style-type: none"> <li>• Practice</li> </ul>	<ul style="list-style-type: none"> <li>• Checkride Prep</li> </ul>	<ul style="list-style-type: none"> <li>• Checkride study</li> </ul>

<p><b>12</b> [2.5   4] (2.5   0)</p>	<ul style="list-style-type: none"> <li>• Practice Checkride</li> </ul>		<ul style="list-style-type: none"> <li>• Checkride Prep</li> </ul>	<ul style="list-style-type: none"> <li>• Checkride study</li> </ul>
<p><b>13</b> [3   2] (1   1)</p>	<ul style="list-style-type: none"> <li>• Additional Dual practice</li> </ul>	<ul style="list-style-type: none"> <li>• Practice</li> </ul>	<ul style="list-style-type: none"> <li>• Checkride Prep</li> </ul>	<ul style="list-style-type: none"> <li>• Checkride study</li> </ul>
<p><b>FINAL</b> [2.5   3] (2.5   0)</p>	<ul style="list-style-type: none"> <li>• CHECKRIDE</li> </ul>			