

# Course Competency

## ATF 1601L Flight Orientation Simulator Lab

### Course Description

This course will provide the student with an introduction to the environment of operating an aircraft from a pilot's point of view. It is designed to provide this knowledge to those students such as Air Traffic Controllers and Aviation Administration Students who have no piloting experience. Special fee. (2 hr. lab)

Course Competency	Learning Outcomes
<b>Competency 1:</b> The student will become familiar with the basic instruments and cockpit layout of a representative light aircraft and the basic methods of aircraft control by:	1. Computer / Technology Usage 2. Critical thinking
a. Distinguishing airspeed and altitude control and flight attitudes, including: <ul style="list-style-type: none"> <li>• Pitch, Roll, Yaw.</li> </ul> b. Demonstrating basic in-flight maneuvers, such as: <ul style="list-style-type: none"> <li>• Level flight, Slow flight,</li> <li>• Climbs, Descents, Turns</li> </ul>	
<b>Competency 2:</b> The student will be introduced to takeoff techniques by:	1. Critical thinking 2. Computer / Technology Usage
a. Operating power settings. b. Demonstrating heading and speed control, allowing for winds. c. Following liftoff and climb techniques.	
<b>Competency 3:</b> The student will become familiar with landing techniques by:	1. Critical thinking 2. Computer / Technology Usage
a. Demonstrating flight traffic patterns. b. Controlling heading, power and speed, allowing for winds. c. Operating down the glide slope and conducting the flare.	

<p>d. Demonstrating proper flap usage and landing techniques.</p>	
<p><b>Competency 4:</b>The student will demonstrate an understanding of basic instrument procedures by:</p>	<ol style="list-style-type: none"> <li>1. Computer / Technology Usage</li> <li>2. Communication</li> <li>3. Critical thinking</li> </ol>
<ol style="list-style-type: none"> <li>a. Demonstrating holding patterns and approaches.</li> <li>b. Describing the required pilot to controller communications from taxi to takeoff to in flight and landing.</li> </ol>	

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