



## PLBT 1301 SYLLABUS

<b>Course Number Course Name</b>	PLBT 1301 Gas Installations
<b>Credit Value (Breakdown of theory and lab credits)</b>	1.5 (0.5 Theory and 1 Lab)
<b>Catalog Course Description</b>	The course will emphasize the importance of proper installations of gas. Properties of gas and the combustion process will be covered as well as gas piping systems; clocking and orifice sizing; air supply and venting; valves and regulators; and electrical systems and controls. Pre-requisites: None
<b>Student Learning Outcomes/Objectives /Competencies of the Course</b>	<p>Student Learning Outcomes:</p> <ul style="list-style-type: none"> <li>• Identify the various properties of gas.</li> <li>• Install a basic gas piping system.</li> <li>• Demonstrate de-rating calculations for proper orifice sizing (Natural &amp; LP).</li> <li>• Identify proper vent material and sizing based on the fuel type and output Btu's.</li> <li>• Demonstrate the proper placement and positioning of gas regulators both in and outside of the building.</li> <li>• Demonstrate proper troubleshooting procedures for gas systems.</li> <li>• Demonstrate proficiency in testing and finding leaks in a gas piping system.</li> </ul>
<b>College-Wide Student Learning Outcomes</b>	<p><i>College Wide Student Learning Outcomes:</i></p> <p><i>Cultural Sustainability</i></p> <p><i>Information Competency</i></p>