

MIOG 2110	Fluid Mechanics	3 Credit Hours
Prerequisites:	MATH 1200, CHEM 1101, and PHYS 1200	
Goal	To impart essential knowledge of Fluid Mechanics and related equipment as applicable to the Oil & Gas Industry.	
Objectives		Outcomes
<p>The Course should enable the student to:</p> <ol style="list-style-type: none"> 1. Understand the basic properties and principles that govern the behavior of fluids, 2. Understand application of devices used for measurement of fluid properties. 3. Solve simple problems of hydrostatics and fluid flow. 4. Gain knowledge of the various types of fluid pumps, air compressors and valves commonly used in Oil and Gas industry. 		<p>Upon completion of the course, the student will be able to:</p> <ol style="list-style-type: none"> 1. Solve simple problems of hydrostatics. 2. Solve simple problems of fluid flow in pipes, using continuity and Bernoulli's equations. 3. Be acquainted with use of common pressure, flow and temperature measuring devices used for hydrostatic and pipe flow applications. 4. Develop basic knowledge of construction and operation of various types of pumps. 5. Develop basic knowledge of construction and operation of Air Compressors. 6. Gain familiarization with different types of valves used in Oil & Gas Industry.