

2023-24 ACADEMIC COURSES

SCI 102 : APPLIED SCIENCE

In this course, students will identify the principles of basic science and physics as they apply to the handling, installation, and repair of mechanical equipment in the piping industry. Students will study the concepts, properties, and characteristics of fluids (including water, hydraulics, pneumatics, metals and alloys) and corrosion through classroom problem-solving calculations and lab activities. Using mathematical computations to determine volumes, change of state, and the effects of temperatures and pressures will also be discussed. In addition, students will recognize the relationships of these sciences to understand the mechanical advantages of simple and compound machines as well as the benefits gained through measured work and horsepower. This course is open only to apprentices in the United Association.

Level I Prereq: Academic Reading and Writing Levels of 6; Member of the United Association

Description	Hours
Credits	3
Lecture Hours	45
Clinical Hours	0
Lab Hours	15
Other Hours	0
Total Hours	60

Accurate as of 02/03/2023 Information is subject to change without notice.