

**NOVA COLLEGE-WIDE COURSE CONTENT SUMMARY
AUT 130 – INTRODUCTION TO AUTOMOTIVE MECHANICS (3 CR.)**

Course Description

Introduces auto mechanics, covering auto shop safety, tool identification and use. Explains automobile system theory and function. Stresses quality work practices and job opportunities.
Lecture 2 hours. Laboratory 3 hours. Total 5 hours per week.

General Course Purpose

This course is designed to introduce the student to automotive shop safety procedures. The student who successfully completes the course will be able to use hand tools and operate standard automotive shop equipment safely. This course is a study of the automotive laboratory with emphasis on shop safety, identification, use of hand tools, general power equipment, and maintenance of an automotive shop. The student will be introduced to Occupational Safety and Health Act standards. The student will learn to identify hand tools, their proper application, and care. The latest power equipment will be explained and demonstrated to the student during periods of demonstration. The student will also be introduced to the sources of specifications and maintenance procedures and how they are used.

Course Prerequisites/Corequisites

Ability to read, write, and speak the English language. AUT 130 is necessary and recommended before other automotive classes are attempted.

Course Objectives

Upon completion of this course, the student should be able to:

- Understand personnel, job, and shop safety requirements
- Be familiar with osha and "right to know" requirements
- Have a basic knowledge of laboratory operation and organization
- Demonstrate the proper care and use of common technician hand tools, power equipment, and standard automotive shop equipment

Major Topics to be Included

- Personnel, job, and shop safety
- Automotive shop lifts, racks, and stands
- Basic hand, electric, pneumatic, and special purpose tools.
- Cleaning equipment
- Automotive specifications, maintenance procedures and their use
- Environmental issues and practices related to hazardous materials and shop waste disposal