

ENGINEERING (ENGR)

ENGR 100 # - Introduction to Engineering Design **Units: 3**

This course is an overview of engineering practice and provides exposure to the environment in which engineers work. The course introduces the design process including initial conceptualization (sketching), detailed drawings (drafting), and prototype fabrication (machine shop). Learning to work as part of an engineering team is a central part of this course.

Term Offered: Spring and Fall

ENGR 110 # - Introduction to Renewable Energy **Units: 3**

This course is designed to give the student basic knowledge in the following areas of solar energy: history, sun movement, climatological data for Reno, Nevada; energy reflection, transmission and absorption, heat transfer, heat storage, collector systems and sizing.

Term Offered: Spring and Fall

ENGR 243 # - Fluid Mechanics, Hydraulics and Hydrology **Units: 3**

Overview study of the behavior of fluids at rest and in motion and principles of hydrology: quantitative hydrology; prediction of runoff; hydrologic applications in urban settings; overview of storm water systems.

Transferability: May not transfer towards an NSHE bachelor's degree

Enrollment Requirements: Prerequisite: MATH 126 and ENGR 100.

Term Offered: AS NEEDED

ENGR 244 # - Introduction to Engineering Economics **Units: 2**

Consideration of various economic calculations such as present worth, benefit-cost and rate of return analyses in engineering decision making.

Transferability: May not transfer towards an NSHE bachelor's degree

Enrollment Requirements: Prerequisite: MATH 126 and ENGR 100.

Term Offered: AS NEEDED

ENGR 245 # - Materials Behavior and Statistical Analysis **Units: 4**

Construction materials behavior and various specifications used in quality control and quality assurance.

Transferability: May not transfer towards an NSHE bachelor's degree

Enrollment Requirements: Prerequisite: MATH 126 and ENGR 100.