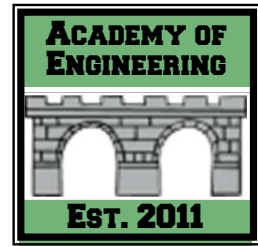


Guest Engineer Lectures Each Friday



ENGR 101

75 Hrs

MODULE: 1

CREDIT AREA: OCCUPATIONAL EDUCATION

COURSE OUTCOME: Students will examine the various disciplines of engineering through weekly guest engineer lectures. Where the student will hear education and career experiences of engineers first hand. Each guest lecture concludes with a quiz / worksheet that the student must fill out regarding the guest lectures engineering career, education, and work specialties.

COURSE DESCRIPTION: This course provides a direct background on the various disciplines of engineering through guest lectures by the local engineering industry. The guest lecturers will cover their personal education and career development, as well as bring examples of their day-to-day work. Students have the opportunity to ask questions about the presented engineering discipline from those that practice the profession. The primary purpose of this course is to help prospective student engineers research what type of engineering they will focus on for their careers.

PREREQUISITES: NONE

COURSE OUTLINE:

Section	Instructor	Subject	Project	Value
1	Perry/Guest	Friday Guest Engineer Lecture Series	30 Weekly Quizzes	300 Points
2			Attendance	30 Points

Planned engineering career guest lecture specialties are as follows:

Civil Engineering	Electrical Engineering	Mechanical Engineering
Construction Engineering	Communications Engineering	Aerospace Engineering
Environmental Engineering	Computer Engineering	Fluid Mechanics Engineering
Geotechnical Engineering	Digital Systems Engineering	Industrial Engineering
Structural Engineering	Electric Power Engineering	Manufacturing Engineering
Surveying	Electronics Engineering	Materials Engineering
Transportation Engineering	Networks and OS Engineering	Mechanical Design Engineering
Hydro/Water Engineering	Software and Gaming Engineering	Solid Mechanics Engineering
Agricultural Engineering	Robotics and Control Engineering	Thermodynamics Engineering
Arctic Engineering	Biomedical Engineering	Nuclear Engineering
Engineering Management	Chemical Engineering	Metallurgical Engineering
Mining Engineering	Petroleum Engineering	Ocean Engineering

STUDENT PERFORMANCE OBJECTIVES:

1. Demonstrate an understanding of the major and minor career disciplines of engineering.
2. Demonstrate an understanding of the education required to become an engineer.
3. Demonstrate an understanding of the requirement to become licensed as an engineer.

METHODS OF INSTRUCTION:

1. Lecture Examples
2. Handouts
3. Demonstrations

STUDENT ASSIGNMENT REQUIREMENTS:

1. Weekly Attendance Character
2. (30) Weekly Quizzes

EVALUATION AND GRADING STANDARDS:

The 30 weekly quizzes are worth (10) points each for a total of 300 points. Attendance is worth (1) point/day for a total of 30 points. The total points for this module is **300 points**. The points from this module will be added to the total for the Occupational Education Credit course to determine a final grade.

REQUIRED STUDENT SUPPLIES AND MATERIALS:

1. (3) Ring Binder for Portfolio Presentation
2. Notebook Paper & Writing Utensil
3. Handouts

ADDITIONAL INSTRUCTIONAL RESOURCES:

1. Internet Research