

## **ME 4520: Acoustics & Noise Control**

### **3 Credit Hours**

*Prerequisite: ENGR 3125, MATH 2306, and Engineering Standing*

This course provides an introduction to acoustics with an emphasis on the engineering application of noise control. Students will learn the acoustic wave equation and apply it to spherical and plan wave sources; such as the reflection, absorption, and transmission of sound waves through barriers, as well as reverberation and HVAC noise standards within indoor spaces. Applications of acoustics to noise control are evaluated.

## **MET 1000: Mechanical Engineering Technology Orientation**

### **1 Credit Hours**

An introduction to career opportunities in the Mechanical Engineering Technologies; familiarization with college and departmental policies, curriculum, and facilities.

## **MET 1001L: Introduction to Mechanical Engineering Technology Lab**

### **1 Credit Hours**

*Prerequisite: ENGR 1000*

A continuation of ENGR 1000, MET 1001L actively introduces the student to an exciting career of applied engineering within the context of Mechanical Engineering Technology. The class/lab blends real-world workplace content, engineering tools/processes, critical engineering skills/competencies, and hands-on input-culminating in an exciting class competition that demonstrates an engineered solution to defined problem.

## **MET 1311: Manufacturing Processes**

### **3 Credit Hours**

An introduction to industrial manufacturing processes used for converting raw materials into finished products. Various processes, machinery, and operations will be examined with emphasis placed on understanding engineering materials and processing parameters that influence design considerations, product quality, and production costs.