## **AE 6762: Applied Acoustics**

Credit Hours:	3-0-3
Prerequisites:	ME 6760 or AE 6760 or equivalent, or with the consent of the instructor.
Catalog Description:	Mufflers, resonators, acoustic materials, barriers, industrial noise, room acoustics, active noise control. Crosslisted with AE 6762.
Textbooks:	Charles E. Wilson, Noise Control: Measurement, Analysis, and Control of Sound and Vibration, 1st Edition, Krieger, 1994.
Goals:	The goal of this course is to expose students to the fundamental principles of noise control.
Topics:	<ul> <li>Mufflers and resonators</li> <li>Acoustic materials, damping</li> <li>Sound transmission, enclosures</li> <li>Barriers</li> <li>Sound intensity, sound power measurements, Acoustic holography</li> <li>Community and industrial noise metric- case studies</li> <li>Room acoustics</li> <li>Active noise control</li> </ul>