**AE 6762: Applied Acoustics**

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| 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: | * Mufflers and resonators * Acoustic materials, damping * Sound transmission, enclosures * Barriers * Sound intensity, sound power measurements, Acoustic holography * Community and industrial noise metric- case studies * Room acoustics * Active noise control |