# NOISE CONTROL AND BUILDING ACOUSTICS GRADUATE CREDIT CERTIFICATE PROGRAM

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| **Person-in-Charge** | Julianna Simon |
| **Program Code** | NCBA_GCT |
| **Campus(es)** | University Park<br>World Campus |

The Graduate Program in Acoustics Noise Control and Building Acoustics Certificate provides working professionals as well as resident students specific noise control and building acoustics knowledge or an additional breadth of noise control and building acoustics knowledge that can support career goals or needs. Specifically, students will be exposed to vibrations such as mass spring systems, membrane vibrations, and waves in rods and noise control engineering topics like source-path-receiver models, human response to noise and vibrations and acoustics standards related to noise and vibration control. Students will have the option of more in-depth exploration in structural vibrations in beams, plates, and cylindrical shells, structural damping, and propagation of sound near the ground including atmospheric turbulence and temperature gradients. This certificate provides flexibility for students to choose online or in-person electives that best suit their needs beyond the required courses. Nine (9) acoustics course credit hours with a "C" or better are required. All completed acoustics certificate courses with a "B" or better can be applied to the Acoustics M.Eng, M.S., or Ph.D. degree programs subject to restrictions outlined in GCAC-309 Transfer Credit (https://gradschool.psu.edu/graduate-education-policies/gcac/gcac-300/gcac-309-transfer-credit/). Certificate students who wish to have certificate courses applied towards a degree in Acoustics must apply and be admitted to that degree program. Admission to an acoustics graduate degree program is a separate step and is not guaranteed. Completion of the three certificates and the M.Eng Capstone Course with a minimum of a 3.0 GPA could earn the M.Eng degree. Acoustics elective subjects include vibrations, fluids, signals, outdoor sound, oceans, and stress waves.

**Effective Semester:** Fall 2025
**Expiration Semester:** Spring 2030