

# PHYSICAL ACOUSTICS GRADUATE CREDIT CERTIFICATE PROGRAM

---

## Certificate Requirements

Requirements listed here are in addition to requirements listed in Graduate Council policy GCAC-212 Postbaccalaureate Credit Certificate Programs (<https://gradschool.psu.edu/graduate-education-policies/gcac/gcac-200/gcac-212-postbaccalaureate-credit-certificate-programs/>).

Minimum credits is nine (9). Minimum overall GPA is 2.0. Time limitation is five (5) years.

There are 3 certificates sponsored through the Graduate Program in Acoustics, and courses cannot be double-counted towards multiple certificates.

Code	Title	Credits
<b>Required Courses</b>		
ACS 502	Elements of Waves in Fluids	3
ACS 515	Acoustics in Fluid Media	3
<b>Additional Courses</b>		
Select one of the following courses:		3
ACS 540	Nonlinear Acoustics in Fluids	
ACS 542	Physical Principles in Biomedical Ultrasonics	
ACS 544	Computational Acoustics	
ACS 560	Ocean Acoustics	
<b>Total Credits</b>		<b>9</b>