



# APPLIED QUANTITATIVE ECOLOGY PROFESSIONAL CERTIFICATE

## Program Summary

Data analysis is essential for understanding the natural world, informing conservation efforts, and making sound resource management decisions. The Center for Wildlife Studies offers a flexible and affordable professional certificate program in Applied Quantitative Ecology. All courses in this professional certificate program are graduate level and are designed for full-time researchers, graduate students, environmental consultants, conservation specialists, and resource management practitioners. Taught by leading experts, participants will learn job-ready skills, including how to properly design field studies and controlled experiments, organize and visualize data, and perform a variety of statistical analyses to answer important environmental questions.



## Course Details

- minimum of 12 graduate-level credits
- may include an optional applied project from work or school
- learn at your own pace online or meet in person
- consistent participation and guidance from an instructor
- all course materials are accessible for 1 year
- each course concludes with a final exam or project (need B- to pass)
- courses can be used for academic credit at your institution
- use courses to certify as an ecologist at any level with ESA
- earn CEUs to maintain certification with ESA and TWS

## Core Curriculum

- R Bootcamp for Ecologists & Wildlife Biologists
- Research Design
- Introduction to Ecological Statistics & Modeling
- Generalized Linear, Additive, & Mixed Models
- Introduction to Bayesian Modeling in Ecology
- Multivariate Ecological Community Analysis (required for plant & community ecologists)

## Current Electives

- Introduction to Occupancy Modeling
- Advanced Occupancy Modeling
- Capture-Mark-Recapture
- Distance Sampling
- Geospatial Modeling with QGIS & R
- Computer Vision for Ecologists
- Bayesian Hierarchical Modeling
- Ecological Multivariate Community Analysis I
- Ecological Multivariate Community Analysis II
- Model Averaging in Ecology
- and many more to come soon...

## Cost:

Early Bird Program Tuition:  
\$600/credit - Professional  
\$500/credit - Student

Pay up front and get one  
credit for free!  
\$6,600 - Professional  
\$5,500 - Student

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 [centerforwildlifestudies.org](http://centerforwildlifestudies.org)

*CENTER FOR WILDLIFE STUDIES is a 501(c)(3) non-profit organization whose mission is to provide accessible environmental education worldwide and promote wildlife conservation through science.*

