

# Syllabus for BCM 700

## Conservation Ecology

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**NOTE:** This syllabus document contains the basic information of this course. The most current syllabus is available in the full course.

### Course Description

Principles of ecology and biodiversity through the lens of conservation planning and policy. Drawing from concepts across multiple disciplines at various spatial and temporal scales in the physical and biological sciences, exploring topics and applications such as watershed management, agricultural practices, wetland delineation, population viability analysis, and ecosystem assessment.

### Prerequisite(s)

None.

### Course Outcomes

Upon completing this course, you will be able to do the following:

- Describe the fundamental principles of conservation ecology as a scientific area from an interdisciplinary perspective.
- Outline specific effects of human activity on biological populations and ecological systems, and the major challenges facing ecosystems today.
- Provide examples of how the physical and biological environment influence and interact to affect conservation planning and policy.
- Synthesize and communicate multiple conservation approaches to minimize the impact of human disturbance and enhance systemic continuity and functional restoration.
- Identify and critique journal articles and ascertain the broader impacts of studies related to conservation ecology.
- Conceptually apply principles of conservation to suggest sustainable use, preservative, and restorative solutions to major issues facing populations and communities.

### Course Requirements/Components

- Discussions
- Assignments

## Grading

The following grading scale will be used to evaluate all course requirements and to determine your final grade:

| Grade | Percentage Range |
|-------|------------------|
| A     | 93% - 100%       |
| AB    | 90% - 92%        |
| B     | 83% - 89%        |
| BC    | 80% - 82%        |
| C     | 73% - 79%        |
| CD    | 70% - 72%        |
| D     | 60% - 69%        |
| F     | 0 - 59%          |

| Assignment                 | Points    |
|----------------------------|-----------|
| Discussions: 11 @ 5 points | 55        |
| Assignments: 4 @ 10 points | 40        |
| <b>Total Points</b>        | <b>95</b> |