Syllabus for BCM 745
Emerging Conservation Concepts and Technologies

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

Course Description

A survey of current and developing approaches to conservation and land stewardship. Explore principles and emerging methods relevant to invasive species management, prescribed fire, disturbance regimes, and core conservation challenges. Innovative tools and monitoring technologies are investigated, including literature review and application to individual projects.

Prerequisite(s)

None.

Course Outcomes

Upon completing this course, you will be able to do the following:
- Explore current and emerging strategies for biodiversity conservation and management through literature review and online discussions.
- Identify current technologies for invasive species management, prescribed burning, population monitoring, and other important conservation practices.
- Design effective methods for population and community monitoring.
- Recognize the potential use of emerging technologies for conservation applications, including artificial intelligence (AI), remote sensing, eDNA, networked sensors, and other innovative tools.
- Apply new ideas and concepts to biodiversity conservation and management strategies.

Course Requirements/Components

- Discussion forum participation and Assignments (75%)
- Final project (25%)

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	Percentage
Discussion forum participation and Assignments	75
Final project	25
Total Percentage	**100**