

COCONINO COMMUNITY COLLEGE

COURSE OUTLINE

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Effective Term: Fall 2020

Date: Jan. 20, 2020

A. **Identification:**

1. Subject Area: Forestry and Natural Resources (FNR)
2. Course: 201
3. Course Title: Introduction to Forestry and Conservation on the Colorado Plateau
4. Credit Hrs: 3 credits
5. Catalog Description: Recommended: Co-enrollment in FNR 215 due to co-convened field trips. This course focuses on developing understanding current conservation issues on the Colorado Plateau, especially climate change, and designing conservation practices to address these issues. Students will gain experience in 'reading the landscape', or evaluation of landscape health condition through personal observation. Students will be exposed to a variety of conservation practices, development of experimental treatments, monitoring of conservation treatments, developing economic plans for conservation projects, and building community capacity to participate in conservation activities. Includes three mandatory overnight field trips up to four days in duration (Friday through Monday).

B. **Course Goals:**

To prepare students for careers in Natural Resource Management, entrance to professional Forestry and Environmental Science programs at a 4-year college, and to fulfill requirements of a Restoration Certificate training program.

C. **Course Outcomes:**

Students will be able to:

1. Describe a range of land management activities occurring across diverse ecosystems in the Colorado Plateau;
2. Explain the goals and objectives of land management decisions for different landowners;
3. Describe how ecosystem functions change as a result of land management decisions and climate change;
4. Evaluate sites for appropriate species, genotypes and planting density and location;
5. Discuss how variation in soil and water impact survival and growth of trees;
6. Develop land management plans for multiple ecosystems exposed to a range of environmental problems;
7. Involve community participation in land management planning;

8. Identify sources of funding to implement land management activities;
9. Clearly express land management objectives verbally and in writing both creatively and analytically.

D: Course Outcomes Assessment:

Must include:

1. Writing assignments
2. Journal activities
3. Group discussions
4. Final conservation reports
5. Final group presentations

E. Course Content:

Will include:

1. Involvement in three different locally based forestry/conservation projects through a series of work experience (Restoration Certificate students) or field trips (non-Certificate students).
2. Readings on regional forestry/conservation issues followed by group discussions.
3. Training in evaluating forest health from multiple disciplinary perspectives.
4. Development of experimentation and monitoring to improve conservation effectiveness.
5. Discussions with land managers about issues that need to be considered to drive effective conservation planning.
6. Economic evaluation of conservation plans.
7. Preparation of conservation plans to share with land-managers.