NATR 108 Articulation Competencies

Exploring Natural Resources Management (3 Credits)

A panoramic view of ecosystems, current topics, primary organizations, and professions in modern natural resources management. Lectures, discussions, and extensive field activities survey this diverse industry. Students will use career assessment and planning tools, such as educational portfolio development, to create a strategy for their professional future.

Upon completion of this course, successful students will score 80% or better on the following competencies to receive WVC college credits.

Student Learning Outcomes:

CATEGORIES			
1. **Problem Solving**:	A. Critical Thinking	3. **Social Interaction**:	A. Collaboration
	B. Creative Thinking		B. Ethical Conduct
	C. Quantitative Reasoning		C. Professional Conduct
	D. Qualitative Reasoning		D. Cultural Diversity
2. **Communication**:	A. Oral Expression	4. **Inquiry:**	**A.** Information Literacy
	B. Written Expression		B. Research
	C. Artistic Expression		C. Documentation

Course Competencies Checklist:

- ❑ Apply knowledge of ecosystem types, components, functions, and processes to observation and basic analysis of natural resources management practices. (1A,B,C,D, 2A,B 3A,B, 4A,B,C)
- ❑ Apply basic understanding of ecological, economical, and social consequences of management paradigms and approaches to current local, regional, and global natural resources issues. (1A,B,C,D, 2A,B 3A,B,C,D 4A,B,C)
- ❑ Present a portfolio of Natural Resources career goals, existing experience supporting those goals, and educational and other activities in order to reach the goals. (1A,B,C,D, 2A,B 3A,B,C,D 4A,B,C)

Program Outcomes:

Students who complete the Natural Resources AAS-T degree will be able to:

- Navigate and safely function in an outdoor workplace.
- Operate tools and equipment commonly used in natural resource field work.
- Utilize basic math skills to make accurate quantitative observations of natural resource conditions and objectively record measurements.
- Think critically and apply basic knowledge of ecology in collecting data.
- Skillfully communicate in a multi-agency context, in oral and written forms with supervisor and peers.
- Skillfully communicate with resource area visitors regarding basic questions relating to ecosystem components, recreational opportunities, and employer rules and regulations.
- Work as an effective team member.
- Demonstrate a good work ethic and take personal responsibility for education, professional development, and career advancement.
- Make decisions about how to live and consume based on understanding of human effects on the ecosystems of which they are a part.
- Acquire training and education to seek employment or advance in current employment in Natural Resources and related fields.
- Develop a foundation to continue their studies in Natural Resources and related fields.

Core Topics:

- Natural resources management.
- Natural resources organizations.
- Land ownerships and the role of federal, state, and local governance.
- Natural resources management philosophies/paradigms.
- Ecosystem types, components, functions, and processes.
- Renewable and non-renewable resources.
- Solid waste and the methods of reuse and disposal.
- Outdoor recreation and land-use planning.
- Careers in Natural Resource Management.
- Role of data reporting in natural resources decision making.

Optional Topics:

- Soil & Water Conservation
- Forest & Rangeland Practices
- Fish & Wildlife Management
- Outdoor Recreation & Public Lands
- Solid Waste & Waste Water Management
- Wetlands, Watersheds & Water Supplies
- Air & Water Quality Standards
- Alternative Energy & Mineral Resources
- Land-use Planning Models