



**Associate of Applied Science
NATURAL RESOURCES - RANGE
ECOLOGY MANAGEMENT**

This program is designed to provide entry-level skills for employment with the national park service or with other state and federal natural resource agencies. In addition, when you complete this program, you will have obtained the necessary courses to transfer to a four-year college or university to further pursue a degree in the field of range ecology.

GENERAL EDUCATION (47 crs)

	Completed	Planned Timeline (by Semester)
Communications (9 crs)		
ENG 111 English Composition I (3) <i>Pre-requisite: ENG 109 or adequate score on the Course Placement Evaluation</i>	_____	_____
ENG 116 Technical Writing (3) <i>Pre-requisite: ENG 111</i>	_____	_____
SPCH 130 Public Speaking I (3) <i>Pre-requisite: ENG 109 or adequate score on the Course Placement Evaluation</i>	_____	_____
Math/Computers/Lab Sciences (29 crs)		
BIOL 201/L Principles of Molecular and Cell Biology with lab (4) <i>Pre-requisite: CHEM 121/L;</i>	_____	_____
BIOL 202/L Principles of Genetics with lab (4) <i>Pre-requisite: BIOL 201 and 201L</i>	_____	_____
CHEM 121/L General Chemistry I with lab (4) <i>Pre-requisite: MATH 130; high school chemistry within the past two years, or ACT score of 19 or higher in Natural Science</i>	_____	_____
ES 112/L Introduction to Environmental Science I with lab (4)	_____	_____
GEOL 101/L Physical Geology with lab (4)	_____	_____
CS 102 Computer Literacy (3)	_____	_____
MATH 145 Introduction to Probability and Statistics (3) <i>Pre-requisite: MATH 130 or adequate score on the Course Placement Evaluation</i>	_____	_____
MATH 150 College Algebra (4) <i>Pre-requisite: MATH 130 or adequate score on the Course Placement Evaluation</i>	_____	_____
Social /Behavioral Sciences (6 crs)		
<i>Pre-requisite: ENG 109 or adequate score on the Course Placement Evaluation</i>		
Choose from the following discipline areas: Anthropology, Economics, Geography, Political Science Psychology, or Sociology		
Electives (6) _____	_____	_____
_____	_____	_____
Humanities and Fine Arts (3 crs)		
PHIL 220 Ethics (3) <i>Pre-requisite: ENG 109 or adequate score on the Course Placement Evaluation</i>	_____	_____
Choose from the following discipline areas: Art (theory only), History, Humanities, Literature, Music (theory only) Philosophy, or Theatre (theory only)		
HEALTH, PHYSICAL EDUCATION & RECREATION (1 cr)		
Elective _____ (1)	_____	_____
PROGRAM REQUIREMENTS (20 crs)		
ES 134 OSHA Health and Safety (3)	_____	_____
ES 120 Forest and Range Ecology (3)	_____	_____
ES 203 Introduction to GIS/GPS and Cartography (3) <i>Pre-requisite: CS 102, or permission of instructor</i>	_____	_____
ES 210/L Soil Management and Fertility with lab (4) <i>Pre-requisite: ES 112/L, ES 201/L, and BIOL 203/L</i>	_____	_____
ES 217 Rangeland Management (3) <i>Pre-requisite: ES 112/L and BIOL 203</i>	_____	_____

ES 250 Watershed and Hydrology Management (3)

Pre-requisite: ES 112/L, BIOL 203/L, and CHEM 121/L

ES 299 Practicum in Environmental Science (1)

TOTAL CREDIT HOURS 68

Educational Planning Form (Semester)

Fall Semester	Spring Semester	Summer
Total Units	Total Units	Total Units
Fall Semester	Spring Semester	Summer
Total Units	Total Units	Total Units
Fall Semester	Spring Semester	Summer
Total Units	Total Units	Total Units

Advisor's Signature _____

Student Signature _____

