

AA General Studies – Natural Resource Option

Water Quality

PHILOSOPHY:

The Water Quality Option provides students who are passionate and curious about the natural world training and knowledge that will provide the entry level skills and opportunities to continue with their education in the areas of forestry, fish and wildlife management, water quality, biology, soil and/or range conservation. Students will learn in the areas of natural resources, environmental issues and traditional culture values.

EXPECTED LEARNER OUTCOMES:

Students will:

1. Develop a knowledge-base sufficient to prepare graduates to obtain employment in tribal Water Quality programs.
2. Develop a knowledge-base sufficient to provide the relevant educational foundation for transfer to and succeed in a four-year Water Quality program.
3. Increase their understanding of the chemical principles underlying water quality.
4. Use Geographical Information Systems.
5. Use and knowledge of water quality standards, laws and policies.
6. Develop knowledge of the economics of surface and subsurface water flow, quality and potential flow patterns.
7. Use of instruments relating to water quality analysis.

COURSE REQUIREMENTS:

Students will complete the GENERAL EDUCATION and the PROFESSIONAL CORE degree requirements as outlined in the appropriate sections.

GENERAL EDUCATION	
General Education Mathematics: M 121: College Algebra (3 credits)	38 CREDITS
General Education Natural Sciences: CHMY 141: College Chemistry I (3 credits) and CHMY 142: College Chemistry I Lab (1 credit) and BIOS 101: General Biology with Lab (4 credits)	
PROFESSIONAL CORE	
BIOS 120: Elementary Microbiology (3 credits)	30 CREDITS
BIOS 121: Elementary Microbiology Lab (1 credit)	
CHMY 143: College Chemistry II (3 credits)	
CHMY 144: College Chemistry II Lab (1 credit)	
ESCI 150: Atmospheric Science with Lab (4 credits)	
HPE 115: First Aid and CPR (2 credits)	
STAT 216: Introduction to Statistics (3 credits) or M 151: Precalculus (3 credits)	
NR 120: Introduction to Water and Wastewater (4 credits)	
NR 125: Introduction to Groundwater (3 credits)	
NR 131: Geographic Information Systems I (3 credits)	
TOTAL CREDIT REQUIREMENTS	68 CREDITS