

Natural Resources

ASSOC OF APPLIED SCIENCE

Major code: 2181
Department: Ag & Natural Resources
Chair: Justin Blazzard
Advising: Marcus Nichols 541-881-5968

PROGRAM OVERVIEW

Successful completion of this degree program provides students with a broad base of skills related to a career in Natural Resources. The Natural Resources Associate of Applied Science degree program offers training in the areas of Invasive Species (Noxious Weeds); Range Management, and Forestry, as well as an introduction to GPS/GIS and Recreation and Wildlife. Successful graduates of this program may secure entry level positions as seasonal, temporary, or permanent employees for state and federal agencies, or private industry.

This degree is designed for students wishing to directly enter the workforce. It is not designed for transfer to a four-year institution, although some coursework may be transferable. Students who wish to transfer coursework are strongly encouraged to work closely with their TVCC advisor to develop a transfer plan and to identify and contact an advisor at their chosen transfer institution. A minimum grade point average of 2.0 is needed to graduate with a degree.

PROGRAM/DISCIPLINE OUTCOMES

Students who complete this area of study will be prepared to:

- Evaluate environments including - How succession works; Why plants and animals live where they do; How to manipulate habitats for desired results; and Understanding the hydrological cycle and how it affects natural resources.
- Utilize forestry equipment (relaskop, diameter tapes, cruiser sticks, levels, increment borers, and tapes).
- Locate a site using GPS, map reading, aerial photos, and the location of corners on the rectangular survey system.
- Identify noxious weeds, range plants, forest plants, and shrubs.
- Demonstrate the ability to apply multiple use concepts including grazing, recreation, and wildlife in public land management.

DUAL CREDIT (2+2)

Students will receive credit for Ag & Natural Resources classes taken in high school as equivalent to college classes provided that the high school classes are listed on a signed articulated on agreement between the specific high school and the college. Credit will be transcribed as equivalent to a parallel community college course.

WORK BASED LEARNING

Students integrate classroom learning with work-based learning by participating in an internship (Cooperative Work Experience, NATR 280) at a supervised work site. Department Chair approval is required. Credits and grades are based on job hours worked, work performance, and completion of learning objectives specified in a learning contract.

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RELATED EDUCATIONAL REQUIREMENTS (16 CREDITS)

Students must have appropriate test scores in writing and math to enter the related courses listed. Students who test below the required level will be required to take preparatory courses. A

college advisor will assist students with selecting the appropriate preparatory course or courses.

<u>COURSE #</u>	<u>COURSE TITLE</u>	<u>CREDITS</u>
-	COM 111Z - PUBLIC SPEAKING (4 credits) or SP 219 SMALL GROUP DISCUSSION (3 credits).....	3
-	INED 157 EMPLOYMENT STRATEGIES.....	2
-	MATH 063 TECHNICAL MATH I.....	4
-	PSYC 101 PSYCHOLOGY OF HUMAN RELATIONS.....	3
-	WR 115 INTRO TO COLLEGE WRITING.....	4

REQUIRED COURSES (78 CREDITS)

Courses are listed in suggested sequence.

YEAR 1

<u>COURSE #</u>	<u>COURSE TITLE</u>	<u>CREDITS</u>
-	CS 101 COMPUTER FUNDAMENTALS I.....	4
-	CSS 217 PESTICIDE SAFETY AND USE.....	1
-	CSS 240 INTRO TO NOXIOUS WEEDS.....	3
-	FWR 101 NATURAL RESOURCES SEMINAR.....	1
-	NATR 101 INTRO TO WILDLAND FIRE (FFT2).....	3
-	NATR 103 APPLIED BOTANY.....	3
-	NATR 105 FIELD METHODS IN NATURAL RESOURCES.....	3
-	NATR 111 INTRO TO NATURAL RESOURCES.....	5
-	NATR 112 GLOBAL POSITIONING SYSTEMS (GPS).....	2
-	NATR 140 MAP USE AND ANALYSIS.....	4
-	NATR 221 INTRO TO NATURAL RESOURCE ECOLOGY.....	3

YEAR 2

<u>COURSE #</u>	<u>COURSE TITLE</u>	<u>CREDITS</u>
-	NATR 280 - COOPERATIVE WORK EXPERIENCE.....	6
-	CSS 205 GENERAL SOILS.....	4
-	FOR 111 INTRODUCTION TO FORESTRY.....	3
-	GEOG 265 GEOGRAPHIC INFO SYSTEMS (GIS) I.....	4
-	HPE 120 FIRST AID & CPR.....	2
-	NATR 102 L-280 FOLLOWERSHIP TO LEADERSHIP... 2	2
-	NATR 104 S-290 INTERMEDIATE FIRE BEHAVIOR.....	3
-	NATR 106 INTRO TO FIRE EFFECTS.....	3
-	NATR 201 ENVIRONMENT & SOCIETY.....	3
-	NATR 202 S-212 WILDLAND FIRE CHAIN SAWS.....	3
-	NATR 217 INTRO TO WATERSHED MANAGEMENT....	3
-	NATR 241 INTRO TO RANGE MANAGEMENT.....	4
-	NATR 251 OUTDOOR RECREATION MANAGEMENT..	3
-	NATR 252 WILDLIFE MANAGEMENT.....	3

Total number of credits..... 94