AY 2025-2026 03.0101 ASNR



Tohono O'odham Community College



Associate of Science in Natural Resources

TOCC's Associate of Science in Natural Resources degree is intended as a transfer degree to a four-year institution, although students could go directly into the workforce as environmental technician, park ranger, forester, etc. This degree provides a solid foundation in the conservation and management of water, animal populations, rangelands, wildlands, fisheries and human impacted landscapes. Careers include wildlife or fisheries biologist, hydrologist, rangeland management specialist, game warden, park ranger, and forestry technician.

Sample Path Progression

If you are a part time student, take half of the classes each semester (fall 1 and spring 1). The following year, take the second half of the classes (fall 1 again and spring 1 again) until you complete the suggested sequence.

Summer 1 (3 cr hr)						
✓ STU 101 Becoming a Master Student (Recommended if student has been out of school for several years)						
Fall 1 (14 cr hr)	Spring 1 (15 cr hr)					
✓ WRT 101	✓ WRT 102					
✓ HIS 122	✓ CHM 121N					
✓ MAT 142H	✓ MAT 151					
✓ BIO 100N	✓ BIO 105N					
Summer 2 (7 cr hr)						
✓ Hi	umanities course					
✓ -	ΓHO 101 or 106					
Fall 2 (12 cr hr)	Spring 2 (12 cr hr)					
✓ BIO 181N	✓ BIO 182N					
✓ BIO 232	✓ MAT 220					
✓ MAT 187	✓ SBS Course					
Su	mmer 3					
✓ A Student Journey (optional)						
Fall 3 (14 cr hr)	Spring 3 (10 cr hr)					
✓ ANR 286N	✓ ANR 221N					
✓ ANR 290N	✓ CHM 152N					
✓ CHM 151N	✓ BIO 299					
✓ BIO 298						

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Associate of Science in Natural Resources

NAME:	TOCC ID:
TOCC EMAIL:	PHONE NUMBER:
TERM OF ADMISSION:	EXPECTED GRADUATION YEAR/TERM:
ACADEMIC ADVISOR:	FACULTY ADVISOR:

General Education Courses:

- Tohono O'odham Himdag (7 cr): HIS 122 (3 cr) and select one from the following: THO 101, THO 106 (4 cr)
- Mathematics (5 cr): MAT 220 Calculus I or higher (Prerequisite: MAT 151 and MAT 182; or MAT 151 and MAT 187; or placement test equivalent.)
- Humanities and Fine Arts (3 cr): Any courses from the General Education selection
- Social and Behavioral Sciences (3 cr). Any courses from the General Education selection

 Note: MAT 142H and courses ending in N (e.g., BIO 100N) are 4 cr. hrs unless otherwise indicated. The rest of the courses are 3 cr. hrs unless otherwise indicated.

COURSE PREFIX	COURSE NAME	REPLACEMENT COURSE	SEMESTER	YEAR	CREDITS	GRADE	MET
HIS 122	Tohono O'odham History and Culture				3		
THO					4		
WRT 101	Writing I				3		
WRT 102	Writing II				3		
MAT 220	Calculus I						
Humanities	and Fine Arts:						
					3		
Social and Behavioral Sciences							
					3		
Three Lab-l	oaded Science Courses						
BIO 105N	Environmental Biology						
BIO 181N	Unity of Life I (prerequisites: WRT 101, BIO 100N, CHM 121N)						
BIO 182N	Unity of Life II (prerequisites: WRT 101, BIO 100N, CHM 121N)						
Total General Education Credits Needed: 36			T	otal Earne	d Credits:		

Core Requirements:

COURSE	COURSE NAME	REPLACEMENT COURSE	SEMESTER	YEAR	CREDITS	GRADE	MET
PREFIX							
CHM 151N	General Chemistry I				5		
	(prerequisite: MAT 151)						
CHM 152N	General Chemistry II				5		
	(prerequisite: CHM						
	151N)						
ANR 286N	Water Resources				4		

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ANR 221N	Soil Science			4		
ANR 290N	Wildlife Conservation			4		
	(prerequisite: BIO					
	105N)					
BIO 232	Principles of					
	Research in the					
	Natural Sciences					
	(Prerequisite: WRT 101,					
	MAT 151 and 2 science					
	courses)					
BIO 298	Service-Learning					
	Practicum (1 cr hr).					
	Prerequisite: Declared					
	major in ASNS and					
	completion of general					
	education					
	requirements					
BIO 299	Research Practicum					
	(1 cr hr). Prerequisite:					
	45 cr hr earned					
	To	tal Core Credits Needed: 27	1	Total Earne	d Credits:	
		Total Degree Credits	63			

Program Learning Outcomes:

- 1. Demonstrate knowledge of ecological processes, including human impacts that influence ecosystems change, natural succession and the future sustainability of natural resources.
- 2. Design and conduct research including hypothesis formulation, literature review, experimental design, and data analysis in the context of both Indigenous and Western perspectives.
- 3. Display a sense of place by identifying a natural resources issue in their community and propose a culturally appropriate solution that incorporates cultural core values.
- 4. Communicate clearly and accurately in both written and oral form about a contemporary natural resources issue and argue cogently from evidence to make informed judgments.

Students:

You must secure official approval by your advisor(s) before submitting the **final** Program of Study. By signing or entering your name below, you agree to the following statement: "Students are responsible for complete knowledge of Academic Catalog requirements in their degree plan and for adhering to all policies in Academic Catalog and Student Handbook."

Signature Panel:

Please indicate approval of the curriculum on the Program of Study by placing your signature (formal electronic signatures are permitted) in the space provided.

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Student:	Date:
Academic Advisor:	Date:
Faculty Advisor:	Date:
Registrar:	Date:
Dean of Academics:	Date: