Tohono O'odham Community College

Associate of Applied Science in Geographic Information Science

The Associate of Applied Science program consists of 60 credit hours. This program is designed to serve as a direct employment option, addressing gaps in hiring tribal members for geospatial technology positions. With tribal hiring requirements, many of these positions only need an associate-level degree. This degree program is designed to be easily linked with the 31-credit hour certificate program. Seven additional courses (General Education and internship) allow students wishing to continue beyond the certificate, to obtain a degree in their field. The A.A.S. program offers students with a hands-on internship experience and a more advanced level of technical skills in geographic information systems.

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 (6 cr hr)	
✓ STU 101 Becoming a Master Student (Recommended if student has been out of school for several years) ✓ CIS 100	
Fall 1 (14 cr hr)	**Spring 1 (14 cr hr)**
✓ WRT 101 ✓ MAT 142H ✓ BIO 105N ✓ GEO 170	✓ WRT 102 ✓ HIS 122 ✓ MAT 151 ✓ GEO 205N
Summer 2 (5 cr hr)	
✓ GEO 217 ✓ SBS Course	
Fall 2 (16 cr hr)	**Spring 2 (13 cr hr)**
✓ MAT 225 ✓ GEO 267 ✓ THO 101 or 106 ✓ Humanities course ✓ GEO Elective	✓ GEO 277 ✓ GEO 285 ✓ GEO Elective ✓ GEO 103 ✓ Humanities course

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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)
- MAT 151 or higher (Prerequisite: MAT 142H or MAT 142 or placement into MAT 151)
- Humanities and Fine Arts (6 cr): Any courses from the General Education selection
- Social and Behavioral Sciences (6 cr) including GEO 103

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						
THO							
WRT 101	Writing I						
WRT 102	Writing II						
MAT							
Humanities and Fine Arts:							
Social and Behavioral Sciences							
GEO 103	GEO 103: Cultural Geography (Prerequisite: Assessment at or completion of WRT 101 or signature of instructor).						
Two Lab-loaded Science Courses							
GEO 101N	Physical Geography						
BIO 105N	Environmental Biology						
Total General Education Credits Needed: 37			**Total Earned Credits:**				

Core Requirements:

COURSE PREFIX	COURSE NAME	REPLACEMENT COURSE	SEMESTER	YEAR	CREDITS	GRADE	MET
MAT 225	Basic Statistics						
CIS 100	Introduction to Computers						

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GEO 170	Introduction to Geospatial Technology (Prerequisite: CIS 100 (or equivalent). Completion of GEO 101N or GEO 103 preferred)						
GEO 217	Introduction to Global Positioning Systems						
GEO 267	Introduction to GIS (Prerequisite: CIS 100 or equivalent or instructor permission)						
GEO 277	Advanced GIS (Prerequisite: Completion of CIS 100, or basic computer proficiency and completion of GEO 267, or equivalent course with a grade of B or higher, or permission of instructor)						
		Total Core Credits Needed: 17			**Total Earned Credits:**		

Electives:

GEO 285: Internship in GIS (Prerequisite: GEO 217, GEO 267 or equivalent AND permission of instructor), or GEO 280: GIS Applications (Prerequisite: GEO 267 or equivalent AND permission of instructor), and any other GEO course at the 200 level (see advisor) (2 semesters and 1 summer)

COURSE PREFIX	COURSE NAME	REPLACEMENT COURSE	SEMESTER	YEAR	CREDITS	GRADE	MET
		Total Core Credits Needed: 6			**Total Earned Credits:**		
		Total Program Credits Needed: 60			**Total Earned Credits:**		

Program Learning Outcomes:

1. Acquiring Data
2. Creating and Critiquing Maps
3. Analyzing Patterns in Spatial Data
4. Design and Implementation of a GIS Project
5. Demonstrating an understanding for GIS Applications
6. Demonstrate an Ability to Complete a Real-World Project in a Professional Environment

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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.

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