



Tohono O'odham Community College



Associate of Applied Science in Geographic Information Science

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						
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 277: Advanced GIS, 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:			

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.

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

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: