Tohono O'odham Community College

Associate of Arts in Geographic Information Science

The Associate of Art in Geographic Information Science is designed to prepare graduates who are well-trained, critical and independent thinkers, and technically proficient in the basic principles of geographic information science. Students completing this program are prepared to transfer to a wide range of bachelor's degree programs including geography, natural resources, environmental science, geology, agriculture, economics, civil/environmental engineering, GIS, among others. This program offers students flexibility in choosing future majors while exploring human and environmental issues alike with a geographic perspective. Graduates will be grounded with a strong foundation in GIS, field mapping, and spatial thinking, skills that will help them excel at the university and beyond.

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.

<table>
<tr><th colspan="2">Summer 1 (6 cr hr)</th></tr>
<tr><td colspan="2">✓ STU 101 Becoming a Master Student (Recommended if student has been out of school for several years)
✓ CIS 100 Introduction to Computers</td></tr>
<tr><th>Fall 1 (14 cr hr)</th><th>Spring 1 (14 cr hr)</th></tr>
<tr><td>✓ WRT 101
✓ GEO 170
✓ GEO 101N
✓ MAT 142H or placement into MAT 151</td><td>✓ WRT 102
✓ THO 101 or 106
✓ Lab-loaded course
✓ GEO 103</td></tr>
<tr><th colspan="2">Summer 2 (6 cr hr)</th></tr>
<tr><td colspan="2">✓ HIS 122
✓ ART 100</td></tr>
<tr><th>Fall 2 (15 cr hr)</th><th>Spring 2 (13 cr hr)</th></tr>
<tr><td>✓ GEO 217
✓ GEO 267
✓ GEO Elective
✓ MAT 151
✓ SBS Course</td><td>✓ CIS 127
✓ Humanities Elective
✓ GEO 285
✓ GEO Elective
✓ MAT 225</td></tr>
</table>

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Associate of Arts 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 placement into MAT 151.
- Humanities and Fine Arts (6 cr): Any courses from the General Education selection
- Social and Behavioral Sciences (6 cr). Take GEO 103 and another SBS course.
- Lab-loaded Science course (courses with N in the prefix; 8 cr): Take GEO 101N and any course with prefix ANR, AST, BIO, CHM, PHY

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	Cultural Geography						
Two Lab-loaded Science Courses							
GEO 101N	Physical Geography						
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						

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GEO 217	Introduction to Global Positioning Systems (2 cr hr)						
GEO 267	Introduction to GIS						
GEO 285	Internship in GIS (1 cr hr)						
Total Core Credits Needed: 15			**Total Earned Credits:**				

Electives:

Recommended: CIS 127: Programming and Problem Solving or one ANR course 100 or higher, and any GEO course at the 200 level

COURSE PREFIX	COURSE NAME	REPLACEMENT COURSE	SEMESTER	YEAR	CREDITS	GRADE	MET
Total Core Credits Needed: 9-10			**Total Earned Credits:**				
Total Program Credits Needed: 61-62			**Total Earned Credits:**				

Program Learning Outcomes:

Students successfully completing this degree will be able to demonstrate proficiency in the following areas:

1. Field Mapping and basic GNSS Skills
2. Acquiring Data
3. Creating and Critiquing Maps
4. Thinking Critically and Spatially
5. Analyzing Patterns in Spatial Data
6. Using Maps to Understand the World Around Us

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: