# Tohono O'odham Community College
## Certificate in Geographic Information Science

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|---|---|
| NAME: | TOCC ID: |
| TOCC EMAIL: | PHONE NUMBER: |
| TERM OF ADMISSION: | EXPECTED GRADUATION YEAR/TERM: |
| ADVISOR: | REQUIRED CREDITS FOR DEGREE: 31 |

## I. General Education Courses (17 cr):
- Tohono O'odham Himdag (7 cr): HIS 122 (3 cr) and select one from the following: THO 101, THO 106 (4 cr)
- Mathematics: MAT 142H or higher

Note: All courses are 3 cr hrs unless otherwise indicated

| COURSE PREFIX | COURSE NAME | SUBSTITUTE COURSE | SEMESTER | YEAR | CREDITS | GRADE |
|---|---|---|---|---|---|---|
| HIS 122 | Tohono O'odham History and Culture | | | | | |
| THO | | | | | | |
| WRT 101 | Writing I | | | | | |
| MAT | | | | | | |
| CSI 100 | Introduction to Computers | | | | | |

## II. Core Requirements (14 cr):

| COURSE PREFIX | COURSE NAME | SUBSTITUTE COURSE | SEMESTER | YEAR | CREDITS | GRADE |
|---|---|---|---|---|---|---|
| GEO 170 | Introduction to Geospatial Technology | | | | | |
| GEO 217 | Introduction to Global Positioning System (2 cr) | | | | | |
| GEO 267 | Introduction to GIS | | | | | |
| GEO 270 | Remote Sensing | | | | | |
| GEO 280 | GIS Applications | | | | | |

## Certificate in Geographic Information Science

The GIS certificate program consists of 31 credit hours. This certificate is designed to be flexible in that it can provide students with the essential entry level skills to obtain direct employment with the Tohono O'odham Nation and surrounding agencies while also allowing degree-seeking students and community members to gain valuable, practical skills in an emerging technical sector.

## Program Learning Outcomes

1. Learn and apply Field Mapping and GNSS Survey Skills
2. Use instrumentation to acquiring Data
3. Develop Maps
4. Think Critically and Spatially
5. Be prepared for a Career in GIS
6. Analyze Patterns in Data

## 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: |
| Faculty Advisor: | Date: |
| Academic Advisor | Date: |
| Registrar: | Date: |
| Dean of Academics: | Date: |