



Tohono O'odham Community College

Associate of Science in Physical Science



NAME:	TOCC ID:
TOCC EMAIL:	PHONE NUMBER:
TERM OF ADMISSION:	EXPECTED GRADUATION YEAR/TERM:
ADVISOR:	REQUIRED CREDITS FOR DEGREE: 60

I. General Education Courses (39 cr):

- Tohono O'odham Himdag (7 cr): HIS 122 (3 cr) and select one from the following: THO 101, THO 106 (4 cr)
- Humanities and Fine Arts (3 cr): Any course from the General Education selection (Catalog p. 188)
- Social and Behavioral Sciences (3 cr): Any course from the General Education selection (Catalog p. 194)

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	SUBSTITUTE COURSE	SEMESTER	YEAR	CREDITS	GRADE
HIS 122	Tohono O'odham History and Culture					
THO						
WRT 101	Writing I					
WRT 102	Writing II					
MAT 220	Calculus I (5 cr)					
Humanities and Fine Arts						
Social and Behavioral Sciences						
CHM 151N	General Chemistry (5 cr)					
CHM 152N	General Chemistry II (5 cr)					
PHY 121N	Fundamentals of Physics I (5 cr)					

II. Core Requirements (5 cr):

COURSE PREFIX	COURSE NAME	SUBSTITUTE COURSE	SEMESTER	YEAR	CREDITS	GRADE
PHY 232	Principles of Research in the Natural Sciences					
PHY 298	Service Learning Practicum (1 cr)					
PHY 299	Research Practicum (1 cr)					

III. Electives (16 cr):

- Choose any of the following courses: AST 101N, AST 102N, CIS 127, EGR 102N, GEO 101N, GLG 101, any MAT Above 220, PHY 210N, PHY 216N, PHY 295, SCI 100, or SCI 290

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Associate of Science in Physical Science

TOCC's Science programs include an Associate of Science in Physical Science degree for transfer with the following concentrations: Astronomy, Physics, Computer Science and Engineering. All options in the AS Physical Science degree emphasize thorough preparation of students who plan to transfer to four-year colleges and universities after they graduate from TOCC. The AS Physical Science degree can help a student attain admission to one of Arizona's public universities as a junior and prepares students for transfer to fields such as engineering, computer science or physical sciences like astronomy, physics or geology.

Program Learning Outcomes

1. Describe concepts as they apply to physical sciences or computer science.
2. Design and conduct a research project in physical science or computer science.
3. Display a sense of place, by being able to identify engineering, science or technical issues on the Tohono O'odham Nation and propose a culturally-appropriate solution.
4. Apply critical and creative thinking skills to solve problems.

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