



Tohono O'odham Community College
Associate of Arts in Computer Information Systems



NAME:	TOCC ID:
TOCC EMAIL:	PHONE NUMBER:
TERM OF ADMISSION:	EXPECTED GRADUATION YEAR/TERM:
ACADEMIC ADVISOR:	FACULTY ADVISOR:

Himdag and General Education Requirements:

- **Tohono O'odham Himdag:** (7 cr): HIS 122 (Institutions of Americas: 3 cr) and THO 101 (Written & Oral Comm: 4 cr)
- **Arizona General Education Courses (AGEC) Requirements listed below (with credit requirements)**

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
Institutions of the Americas: (3 cr)							
HIS 122	Tohono O'odham History and Culture						
Written and Oral Communications: (10 cr – first 6 must be composition/technical writing)							
WRT 101	Writing I						
WRT 102	Writing II						
THO 101	Elementary Tohono O'odham I						
Quantitative Reasoning: (3 cr)							
MAT 225	Basic Statistics						
Arts and Humanities: (6 cr)							
Social and Behavioral Sciences: (6 cr)							
Natural Sciences: (4 cr)							
Total General Education Credits Needed: 32				Total General Education Credits Earned:			

Core Requirements:

COURSE PREFIX	COURSE NAME	REPLACEMENT COURSE	SEMESTER	YEAR	CREDITS	GRADE	MET
CIS 100	Introduction to Computers						
CIS 119	Introduction to SQL						
CIS 127	Programming and Problem Solving I						
CIS 140	Introduction to Risk Management						

CIS 210	Introduction to System Administration						
CIS 280	IT Project Management						
Total Core Credits Needed: 18				Total Core Credits Earned:			

Electives:

Choose courses according to desired concentration area:

COURSE PREFIX	COURSE NAME	REPLACEMENT COURSE	SEMESTER	YEAR	CREDITS	GRADE	MET
CIS 234N	Cybersecurity and Network Defense						
CIS 240N	Network Security						
CIS 250 N	Coding Fundamentals						
Total Elective Credits Needed: 12				Total Elective Credits Earned:			
Total Program Credits Needed: 62				Total Program Credits Earned:			

Associate of Arts in Computer Information Systems

The Computer Information Systems program covers developing and maintaining information systems that support organizations technical infrastructure. Students will learn about computer hardware and software, creating and supporting databases, building a network, configuring networks, cyber-security fundamentals, and project management which prepares students for entry-level positions as system administrators, network administrators, support technicians, and applications specialists in the computer information services industry. Graduates may enter a Baccalaureate Degree program and/or sit for the Certified Information Systems Security Professional (CISSP), Project Management Professional (PMP), and/or the Certified Cisco Network Associate (CCNA) network certification examinations.

Program Learning Outcomes:

1. Technical Skills: Develop advanced proficiency in programming languages, database management, and network administration.
 - a) Measurable Objective: Students will demonstrate proficiency in at least one programming languages and complete projects showcasing their ability to use databases, adjust network configurations, and apply cybersecurity processes.
2. Problem-Solving: Enhance critical thinking abilities to troubleshoot and solve complex IT problems.
 - a) Measurable Objective: Students will successfully troubleshoot and resolve at least three simulated IT problems during lab exercises or projects, including more advanced issues.
3. Communication: Improve communication skills for effective customer service, technical documentation, and presentations.
 - a) Measurable Objective: Students will deliver a technical presentation or write a report demonstrating clear communication of advanced IT concepts and solutions.
4. Ethical Awareness: Understand and apply ethical principles in IT practices.
 - a) Measurable Objective: Students will analyze complex ethical dilemmas in IT scenarios and propose solutions aligned with professional standards and Tohono O'odham Himdag.
5. Collaboration: Work effectively in teams on advanced IT projects.
 - a) Measurable Objective: Students will lead and participate in group projects, demonstrating effective leadership and teamwork in achieving project goals.

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: