San Carlos Apache College

Associate of Arts in Computer Information Systems

NAME:	TOCC ID:
TOCC EMAIL:	PHONE NUMBER:
TERM OF ADMISSION:	EXPECTED GRADUATION YEAR/TERM:
ADVISOR:	REQUIRED CREDITS FOR DEGREE: 61-62

I. General Education Courses (36 cr):

- San Carlos Apache Cultural Component: HIS 130 (3 cr) and APA 101 (4 cr)
- MAT 212 Topics in Calculus or MAT 220 Calculus I
- Humanities and Fine Arts (6 cr): Any courses from the General Education selection
- Social and Behavioral Sciences (6 cr). Recommended: PSY 101, SOC 101
- Lab-loaded Science course (courses with N in the prefix; 8 cr): Any course with prefix ANR, AST, BIO, CHM, PHY, GLGN

Note: 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 130	Apache History I					
APA 101	Apache Language and Culture I					
WRT 101	Writing I					
WRT 102	Writing II					
MAT						
Humanities and Fine Arts						
Social and Behavioral Sciences						

CIS 100						
Two Lab-loaded Science courses						

II. Core Requirements (18 cr):

Course Prefix	Course Name	Substitute Course	Semester	Year	Credits	Grade
CIS 127	Programming and Problem Solving I					
CIS 130	Fundamentals of Computer Networking					
CIS 140	Introduction to Risk Management					
CIS 210	Introduction to System Administration					
CIS 280	IT Project Management					
CIS 297	Internship/Practicum					

III. Electives (7 - 8 cr):

Choose courses according to desired concentration area:

Course Prefix	Course Name	Substitute Course	Semester	Year	Credits	Grade
CIS 230N	Networking Fundamentals – Nt., S					
CIS 240N	Network Security – Nt., S					
CIS 250N	Coding Fundamentals-C					
GEO 267	Introduction to GIS – G					

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.

Areas of Focus

Coding (C) - Software development using programming language to accomplish tasks using a computer. Design and build executable programs and applications to solve problems.

Networking (Nt) - A group of two or more computer systems linked together. Local area networks to wide area networks are configured and maintained using skills obtained in network courses.

Security (S) - Understanding and applying layers of protection for computer systems. From firewalls to penetration testing learn how to protect your digital assets.

GIS (G) - Geographic Information Systems (GIS), solving real world problems creating and using digital maps and layered satellite imagery to reveal patterns, trends, and relationships.

Program Learning Outcomes

1. Technical Skills: Develop proficiency in programming languages, database management, and network administration.
    a. Measurable Objective: Students will demonstrate proficiency in at least one programming language and complete projects showcasing their ability to analyze and implement secure databases and network configurations.
2. Problem-Solving: Enhance critical thinking abilities to analyze and solve basic IT problems.
    a. Measurable Objective: Students will successfully troubleshoot and resolve at least two simulated IT problems during lab exercises or projects.
3. Communication: Improve communication skills for effective analysis, technical documentation, and presentations.
    a. Measurable Objective: Students will deliver a technical presentation or write a report demonstrating clear communication of basic IT concepts and solutions.
4. Ethical Awareness: Understand and apply basic ethical principles in IT practices.
    a. Measurable Objective: Students will identify ethical considerations in IT scenarios and propose solutions aligned with fundamental professional standards and Apache values
5. Collaboration: Work effectively in teams on basic IT projects.
    a. Measurable Objective: Students will participate in group projects and receive peer evaluations demonstrating their contribution to team 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:
Advisor:	Date:
Registrar:	Date:
Faculty Adviser (if applicable)	Date
Provost:	Date: