

COMPUTER INFORMATION SYSTEMS

ASSOCIATE IN ARTS (AA) DEGREE

COMPUTER INFORMATION SYSTEMS CONCENTRATION

For students considering a major in COMPUTER INFORMATION SYSTEMS upon transferring to a four-year institution, the Associate of Arts degree with a COMPUTER INFORMATION SYSTEMS concentration from ACC offers a strong foundation, providing essential courses that serve as building blocks for advanced study.

A concentration in COMPUTER INFORMATION SYSTEMS can lead to diverse career opportunities, including computer programmers, network administrators, database administrators, business intelligence analysts, web developers, software systems developers, or computer systems engineers. The program helps prepare students for industry-recognized certifications.

Program Objectives

Upon graduating from ACC with an Associate of Arts degree with a concentration in COMPUTER INFORMATION SYSTEMS, students will:

1. **Support** information systems using fundamental knowledge of computer systems, networking, and cybersecurity.
2. **Analyze** business and technology challenges, determine solutions, and present technical information clearly to diverse audiences.
3. **Apply** ethical, legal, and security best practices while adapting to evolving technologies in the field.

It is strongly recommended that students consult with an ACC Academic Advisor in COMPUTER INFORMATION SYSTEMS to ensure they meet specific program requirements, objectives, and transfer goals.

PROGRAM REQUIREMENTS (PR)

BUS 262	PROJECT MANAGEMENT (3/4)
CIS 140	INTRODUCTION TO MICROSOFT CLIENT OS (3/4)
CNS 150	NETWORKING FUNDAMENTALS (3/4)
CNS 170	PC REPAIR & MAINTENANCE (4/5)
CNS 180	INTRODUCTION TO MICROSOFT SERVER (3/4)
CNS 220	ADVANCED MICROSOFT SERVER (3/4)
CNS 230	INFORMATION SECURITY (3/4)
CNS 240	OPEN-SOURCE NETWORKING (3/4)

GENERAL EDUCATION

DEGREE DISTRIBUTION REQUIREMENTS

GROUP 1 (G1) – ENGLISH COMPOSITION

Six (6) semester credits are required, including ENG 111 or 121 and 112, 122 or 123

GROUP 2 (G2) – SCIENCES/MATHEMATICS

Eight (8) semester credits are required, including at least one laboratory science course. Courses will be taken in more than one academic discipline (course abbreviation/prefix). Note: Two (2) courses in Natural Sciences, including one with laboratory experience (from two disciplines), in addition to MTH 118 or MTH 121 or higher, are required to achieve the Michigan Transfer Agreement (MTA).

GROUP 3 (G3) – SOCIAL SCIENCES

Eight (8) semester credits are required, including the Political Science or U.S. History courses used to satisfy the American Government requirement. Courses will be taken in more than one academic discipline (course abbreviation/prefix).

GROUP 4 (G4) – HUMANITIES/FINE ARTS

Eight (8) semester credits are required, and they must include either: a.) A combination of courses taken in more than one academic discipline (course abbreviation/prefix) or b.) HUM 241 and 242 — Humanities I and II. Note: Two (2) courses in Humanities and Fine Arts (from two disciplines and excluding studio and performance classes) are required for the Michigan Transfer Agreement (MTA).

ELECTIVE CREDITS (EC)

The remainder of credits for an AA degree with this concentration should be oriented toward additional courses in COMPUTER INFORMATION SYSTEMS with prefixes **CIS** and **CNS** when available and selected in consultation with an ACC Academic Advisor in COMPUTER INFORMATION SYSTEMS.

RECOMMENDED COURSES - SEQUENCE

GROUP 1-4 REQUIREMENTS + ELECTIVE CREDITS

Meets ACC degree distribution and MTA requirements

61 CREDITS - 71 CONTACT HOURS

YEAR 1 FALL	16 CREDITS
G1	ENG 111 ENGLISH COMPOSITION I (3/3)
G4	HUM/FA HUMANITIES/FINE ARTS (3/3)
PR	CIS 140 INTRO TO MICROSOFT CLIENT OS (3/4)
PR	CNS 150 NETWORKING FUNDAMENTALS (3/4)
PR	CNS 170 PC REPAIR & MAINTENANCE (4/5)

YEAR 1 SPRING	14 CREDITS
G1	ENG 112 ENGLISH COMPOSITION II (3/3)
G2	MTH 118 Math for Liberal Arts/QR or MTH 121 or higher (4/4)
G2	SCI LAB SCIENCE/NATURAL SCIENCE (4/5)
PR	CNS 180 INTRO TO MICROSOFT SERVER (3/4)

YEAR 2 FALL	15 CREDITS
GR3	ECN 231 ECONOMICS (MICRO) (3/3)
PR	BUS 262 PROJECT MANAGEMENT (3/4)
PR	CNS 220 ADVANCED MICROSOFT SERVER (3/4)
PR	CNS 230 INFORMATION SECURITY (3/4)
PR	CNS 240 OPEN-SOURCE NETWORKING (3/4)

YEAR 2 SPRING	16 CREDITS
G2	SCI LAB SCIENCE (4/5)
G3	PLS 221 AMERICAN GOVERNMENT & POLITICS (3/3)
G3	ECN 232 ECONOMICS (MACRO) (3/3)
G4	PHL 228 INTRODUCTION TO ETHICS (3/3)
G4	HUM/FA HUMANITIES/FINE ARTS (3/3)