
Associate in Applied Science (64 semester hours)

Computer and Information Technology focuses on the development and support of computing systems. With the proliferation of computers into every aspect of business and industry, there will always be a need for technically skilled professionals who can design computer programs and systems, produce and manipulate digital media, support users, and provide administration and maintenance of computer networks. All concentrations lead to an Associate Degree in Applied Science – major in Computer and Information Technology.

The Computer and Information Technology Associate Degree program allows you to select one of the following four concentrations that are essential to contemporary computing:

- Networking
- Software Development and Support
- IT Support
- Visual Media Technology

Program Requirements:

Required Core Courses – take all of these (51 semester hours)

Please consult course descriptions to determine pre-requisites for each course.

ENG 111	College Composition (MPF I) (3)
ENG 112	Composition and Literature (MPF I) (3)
COM 135	Public Expression and Critical Rhetoric (MPF IIB) (3)
CIT 154	Personal Computer Concepts and Applications (3)
CIT 157	Foundations of Information Technology I (3)
CIT 158	Foundations of Information Technology II (3)
CIT 173	Multimedia Fundamentals (3)
CIT 262	Technology, Ethics and Global Society (3) (MPF IIB or IIC)
CIT 214	Database Design and Development (3)
CIT 268	Human-Computer Interaction (3)
CIT 273	Web Application Development (3)
CIT 276	Systems Analysis and Design (3)
CSA 163	Intro to Computer Concepts and Programming (MPF V) (3)
MGT 111	Introduction to Business (MPF IIC) (3)
MTH 102	Intermediate Algebra (3)
Miami Plan	U.S. Cultures Elective (MPF IIIA) (3)
Miami Plan	World Cultures Elective (MPF IIIB) (3)

Students must also complete one of four CIT concentrations (listed above) in addition to the core courses.

**SEE REVERSE SIDE FOR DESCRIPTIONS AND
REQUIREMENTS OF EACH CONCENTRATION**

updated: 7/09

The **Networking** concentration prepares students to design, install, support and maintain security for computer networks, maintain hardware and software, and analyze and trouble-shoot problems.

Networking concentration requirements (take all 15 semester hours):

CSA 174 Fundamentals of Programming and Problem Solving (3)
ENT 294 Local Area Networks
 or ENT 298 Data Communications
 or CSA 283 Data Communication and Networks (3) (requires an additional pre-req)
CIT 286 Network Administration and Security (3)
ECO 201 Principles of Microeconomics (MPF IIC) (3)
Miami Plan IIA **or** Miami Plan IV elective (3)

OR

The **Software Development and Support** concentration prepares students to design, create and maintain software in a variety of current programming languages, understand and use operating systems, and support application programs.

Software Development and Support concentration requirements (take all 15 semester hours):

CSA 174 Fundamentals of Programming and Problem Solving (3)
CSA 271 Object-Oriented Programming (3)
CIT 263 Advanced Topics in VisualBASIC
 or CSA 153 Introduction to C/C++ Programming (3)
ECO 201 Principles of Microeconomics (MPF IIC) (3)
Miami Plan IIA **or** Miami Plan IV elective (3)

OR

The **IT Support** concentration prepares students to meet the needs of today's employers who are looking for help desk staff familiar with standard support methodologies, have strong problem solving skills, and good interpersonal communication skills.

IT Support concentration requirements (take all 13 semester hours):

BTE 281 Business Communication Software (3)
CIT 263 Advanced Topics in VisualBASIC (3)
COM 136 Interpersonal Communication (MPF IIC) (3)
Miami Plan IIA **or** Miami Plan IV elective (3)
Free elective (1)

OR

The **Visual Media Technology** concentration combines the study of art and technology to allow students to produce and manipulate visual media using technology for computer-based communication, marketing, education, and entertainment.

Visual Media Technology concentration requirements (take all 15 semester hours):

ART 111 Visual Fundamentals (3)
ART 121 Drawing I (3)
ART 255 Digital Imaging (3)
ART 187 History of Western Art: Prehistoric - Gothic (MPF IIA)
 or ART 188 History of Western Art: Renaissance – Modern (MPF IIA) (3)
COM 136 Interpersonal Communication (MPF IIC) (3)