# COMPUTER INFORMATION SYSTEMS, AS

Most computer users in business neither know, nor need to know, how a computer actually works in order to use it. They just need it to work. Therefore, there is a demand for "user advocates" who help users decide which technology is appropriate for their needs and consult them on how to deploy that technology to meet their goals. The Associate of Science in Computer Information Systems degree arms students with the knowledge and skills necessary to become one of these much sought after advocates.

Information technology students learn to "make things work" for people in today's business. The curriculum develops students' competencies in four major areas: technical/practical skills, business/soft skills, industry/field experience, and certifications. The School of Information Technology teaches students to apply what they have learned and to solve practical business problems by creating applications that support the problem-solving and decision-making needs of the corporate community.

The program level objectives for students completing the AS in Computer Information Systems are as follows:

1. To prepare and develop students to be competent in four (4) areas:
   a. Technical / Practical Skills
   b. Business / Soft Skills
   c. Industry Training / Experience
   d. Certification Preparation
2. To prepare students to think critically to solve computing problems through identification, assessment and evaluation of business and information systems; design and develop software applications and plan a scheme of secure systems
3. To develop students to become leaders and decision-makers; and ability to work with others to function effectively as business solution providers
4. To build students' awareness in conducting themselves in a manner that is professional, ethical, and social
5. To prepare students for rewarding careers in computer and information technology related fields

## Requirements

| Code | Title | Credits |
|---|---|---|
| **Major-Related Courses** | | |
| IT-100 | Introduction to Information Technology | 3 |
| IT-127 | Computer Hardware and Software | 3 |
| IT-130 | Database | 3 |
| IT-135 | CCNA I: Introduction to Networks | 3 |
| IT-150 | Web Design Technology | 3 |
| IT-235 | CCNA II: Switching, Routing & Wireless Essentials | 3 |
| Major Area Electives | | 9 |
| Major-Related Courses Subtotal | | 27 |
| **General Education and Related Courses** | | |
| EN-111 | College Writing and Critical Analysis | 3 |
| EN-121 | Analytical Thinking, Writing & Research | 3 |
| EN-206 | Professional Writing and Presentation | 3 |
| IT-160 | Programming Logic | 3 |
| IT-295 | Systems Analysis & Design | 3 |
| LA-122 | Fundamentals of Communication | 3 |
| MA-115 | Quantitative Reasoning | 3 |
| MA-120 | Finite Mathematics & Linear Modeling | 3 |
| Liberal Arts Elective(s) (including IT-Liberal Arts Courses) | | 6 |
| Social Science or Liberal Arts Electives | | 3 |
| General Education and Related Courses Subtotal | | 33 |
| **Total Credits** | | **60** |

## Recommended Sequence

| Course | Title | Credits |
|---|---|---|
| **Semester 1** | | |
| IT-100 | Introduction to Information Technology | 3 |
| EN-111 | College Writing and Critical Analysis | 3 |
| LA-122 | Fundamentals of Communication | 3 |
| LA-ELE | Liberal Arts Elective | 3 |
| MA-115 | Quantitative Reasoning | 3 |
| | **Credits** | **15** |
| **Semester 2** | | |
| IT-127 | Computer Hardware and Software | 3 |
| IT-130 | Database | 3 |
| IT-135 | CCNA I: Introduction to Networks | 3 |
| EN-121 | Analytical Thinking, Writing & Research | 3 |
| MA-120 | Finite Mathematics & Linear Modeling | 3 |
| | **Credits** | **15** |
| **Semester 3** | | |
| IT-150 | Web Design Technology | 3 |
| IT-160 | Programming Logic | 3 |
| IT-235 | CCNA II: Switching, Routing & Wireless Essentials | 3 |
| EN-206 | Professional Writing and Presentation | 3 |
| LA-ELE | Liberal Arts Elective | 3 |
| | **Credits** | **15** |
| **Semester 4** | | |
| IT-295 | Systems Analysis & Design | 3 |
| IT-ELE | IT Elective [1] | 3 |
| IT-ELE | IT Elective | 3 |
| IT-ELE | IT Elective | 3 |
| LA-ELE | Liberal Arts Elective | 3 |
| | **Credits** | **15** |
| | **Total Credits** | **60** |

[1] IT Electives suggested courses: IT-250 Advanced Web Design, IT-260 Advanced Programming, and IT-280 Object Oriented Programming.