Computer Information Systems (A.S.)

Division of Mathematics, Engineering Technologies and Computer Sciences — Curriculum Code: 2002

Will Earn Upon Program Completion: Associate in Science (A.S.) Degree

The Computer Information Systems degree program prepares students to transfer upon graduation to four-year institutions to pursue bachelor's degrees in Computer Information Systems or Management Information Services, or to enter the information technology field directly. With rapid growth in information technology, demand has increased for qualified individuals to serve in such capacities as technical support specialist, network technician, database application specialist, personal computer (PC) technician, and Help Desk technician.

Program Requirements

GENERAL EDUCATION REQUIREMENTS

Written & Oral Communication (6 credits)
ENG 101 (3 credits)
ENG 102 (3 credits)

Quantitative Knowledge & Skills (10 credits)
MTH 113 (4 credits)
MTH 114 (3 credits)
MTH 136 (3 credits)

Scientific Knowledge & Reasoning (4 credits)
Choose one of the following lab science courses: BIO 101BIO 102BIO 103BIO 104BIO 121BIO 122CHM 101CHM 102CHM 103CHM 104PHY 101PHY 102PHY 103PHY 104PHY 113 or PHY 114 (one 4-credit course)

Society & Human Behavior (6 credits)
Choose two of the following courses: ANT 101ANT 105ECO 101ECO 102POL 101POL 104PSY 101PSY 102PSY 219SOC 101SOC 108 or SOC 219 (two 3-credit courses)

Humanistic Perspective (6 credits)
Choose one of the following literature courses: ENG 205ENG 208ENG 215ENG 221ENG 222ENG 232ENG 237ENG 238ENG 242ENG 250ENG 263 or ENG 264 (one 3-credit course)
AND
Choose one of the following art or music courses: ART 100ART 101ART 102MUS 100MUS 108MUS 109 or MUS 117 (one 3-credit course)

Historical Perspective (3 credits)
Choose one of the following history courses: HST 101HST 102HST 111HST 112HST 121HST 122HST 131HST 132HST 134HST 135HST 136HST 137HST 161 or HST 162 (one 3-credit course)

MAJOR COURSE REQUIREMENTS

CIS 212 Systems Analysis & Design (3 credits)
CIS 215 Data Communications (3 credits)
CSC 121 Computer Science I (4 credits)
CSC 122 Computer Science II (4 credits)
CSC 225 Data Structures (4 credits)
CSC 221 Computer Systems & Architecture, CSC 228 Operating Systems, or CSC 235 Advanced Object-Oriented Programming (one 4-credit course)
CSC 231 Database Design (4 credits)

ADDITIONAL COURSE REQUIREMENTS

ACC 101 Principles of Accounting I – Financial (4 credits)
BUS 101 Business Organization & Management (3 credits)

RECOMMENDED SEQUENCE OF COURSES

Total Credits Required for Degree: 68

First Semester
ENG 101 College Composition I (3 credits)
CSC 121 Computer Science i (4 credits)
MTH 113 College Algebra with Trigonometry (4 credits)
Historical Perspective art or music requirement (3 credits)

Second Semester
ENG 102 College Composition II (3 credits)
CSC 122 Computer Science II (4 credits)
BUS 101 Business Organization & Management (3 credits)
MTH 114 Unified Calculus I (3 credits)
Society & Human Behavior requirement (3 credits)

Summer Session
Society & Human Behavior requirement (3 credits)
Humanistic Perspective requirement art or music requirement (3 credits)

Third Semester
CIS 212 Systems Analysis & Design (3 credits)
CSC 225 Data Structures (4 credits)
ACC 101 Principles of Accounting I – Financial (4 credits)
MTH 136 Discrete Mathematics (3 credits)
Humanistic Perspective literature requirement (3 credits)

Fourth Semester
CIS 215 Data Communications (3 credits)
CSC 221 Computer Systems & Architecture, CSC 228 Operating Systems, or CSC 235 Advanced Object-Oriented Programming (4 credits)
CSC 231 Database Design (4 credits)
Scientific Knowledge & Reasoning requirement (4 credits)

NOTES:

(1) The two General Education Integrated Course Goals, Ethical Reasoning & Action and Information Literacy, are both addressed by the required curriculum described above, regardless of specific choices made by the individual student.

(2) This plan assumes the completion of all required developmental courses in Reading, English, and Mathematics as well as other pre-requisites and co-requisites for some of the courses, as listed in the Course Descriptions section.