Associate of Science with Emphasis in Information Systems Technology

The national and regional job outlook and earnings for careers in information technology continue to be strong. Employees in this sector may possess a diverse or concentrated background in areas such as software and hardware development, mobile computing, data storage and analysis, information security, system administration and integration, computer networking, mathematics and science.

Students completing the Associate of Science (AS) emphasis in Information Systems Technology will be prepared with a diverse set of skills that include the fundamentals of software development. They can then transfer credits seamlessly to the University of Kansas, Edwards campus, to complete a Bachelor of Science in Information Technology in two additional years. Completion of the AS degree may help students obtain internships or entry-level jobs as they complete their bachelor's degree.

Programming Program web page (http://www.jccc.edu/academics/credit/programming/)

(Major Code 2940; State CIP Code 24.0101)

Associate of Science

Important: Students graduating with an associate of science degree must complete an **approved cultural diversity** course. Some of the approved courses are able to meet both the cultural diversity requirement and a general education requirement. A list of **approved cultural diversity courses** can be found in the list of AS general education electives (http://catalog.jccc.edu/degreerequirements/associate-science/).

First Semester

| Total Hours | | 16 |
|-------------|------------------------------------|----|
| PSYC 130 | Introduction to Psychology | 3 |
| MATH 171 | College Algebra* | 3 |
| ENGL 121 | Composition I* | 3 |
| or CIS 142 | Beginning Programming using Python | |
| CS 134 | Programming Fundamentals | 4 |
| COMS 121 | Public Speaking | 3 |

Second Semester

| Total Hours | | 15 |
|---------------------------|--|----|
| ENGL 122 | Composition II* | 3 |
| or CS 205 | Concepts of Programming Algorithms using Java* | |
| CS 200 | Concepts of Programming Algorithms Using C++* | 4 |
| CIS 204 | UNIX Scripting and Utilities* | 3 |
| NOTE: If BIOL 135 is to | aken, a one hour elective is required. | |
| or CHEM 124 & CHEM 125 | General Chemistry I Lecture* and General Chemistry I Lab | |
| BIOL 135 | Principles of Cell and Molecular Biology | 5 |

See all AS general education electives (http://catalog.jccc.edu/degreerequirements/associate-science/)

Third Semester

| CIS 260 | Database Management* | 4 |
|---|--|---|
| CS 210 | Discrete Structures I* | 3 |
| CS 235 | Object-Oriented Programming Using C++* | 4 |
| or CIS 240 | Advanced Topics in Java* | |
| ECON 132 | Survey of Economics | 3 |
| Humanities Elective [^] | | 3 |
| Note: Ethics is recommended as one of the two humanities electives. Humanities electives chosen must transfer to KLL and one of the | | |

Note: Ethics is recommended as one of the two humanities electives. Humanities electives chosen must transfer to KU, and one of the humanities electives must satisfy the JCCC cultural diversity requirement.

Total Hours 17

- 2 Associate of Science with Emphasis in Information Systems Technology
- ^ See all AS general education electives (http://catalog.jccc.edu/degreerequirements/associate-science/)

Fourth Semester

| Total Hours | | 15 |
|--------------------|--|----|
| | ecommended as one of the two humanities electives. Humanities electives chosen must transfer to KU, and one of the ectives must satisfy the JCCC cultural diversity requirement. | |
| Humanities Elect | tive [^] | 3 |
| PHYS 130 | College Physics I* | 5 |
| or CS 255 | Basic Data Structures Using Java* | |
| CS 250 | Basic Data Structures using C++* | 4 |
| CS 211 | Discrete Structures II* | 3 |

[^] See all AS general education electives (http://catalog.jccc.edu/degreerequirements/associate-science/)

Total Program Hours: 63