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.

Software Development Program web page (https://www.jccc.edu/academics/credit/software-development/)

(Major Code 2940; 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

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

Second Semester

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

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 KU, and one of the humanities electives must satisfy the JCCC cultural diversity requirement.		
Total Hours		**17**

Fourth Semester

CS 211	Discrete Structures II*	3
CS 250	Basic Data Structures using C++*	4
or CS 255	Basic Data Structures Using Java*	
PHYS 130	College Physics I*	5
Humanities Elective ^		3
Note: Ethics 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		**15**

Total Program Hours: 63

*   This course has registration requirements.

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