

# Information Technology

## Degree Type

Associate in Applied Science

## Type

Career

Division of STEAM

Associate Dean: Bradley Cole

The career program in Information Technology is designed to offer students several paths of study leading to an A.A.S. degree in their chosen field. The program is designed to be flexible and diverse so as to offer students the opportunity to choose a career path that best suits their interests and provides them with marketable skills for entering the global job market, or for continuing their education. This program offers specialization in network technology and system administration. Avenues for various career paths could include positions at national supercomputing and science laboratories, continuing on in the undergraduate and eventually graduate programs at other institutions, or positions in the corporate world (banks, financial institutions, etc.). The program also provides educational enhancement opportunities to local employers who want to advance the education of their employees.

Graduates will be able to:

- Communicate effectively using written and oral communication skills;
- Work effectively in a team environment both as a member and as a leader;
- Utilize analytical problem-solving techniques and critical thinking skills;
- Apply knowledge needed to successfully work with the various computer, networking, system, and application technologies as covered in the various program options.

## Program Requirements

Item #	Title	Credits
ENGL 1110	College Communication	3.0
ENGL 1020	College Composition II	3.0
	MATH 1230 or higher	3
	Social Science Elective	3
	Social Sciences or Humanities Elective	3
	Diversity, Equity, Inclusion, Social Justice (DEI/SJ) Course	3
PHYS 1010	Elementary Physics	0.0-4
	Information Technology Requirements	39
	Information Technology Elective	3
	<b>Total Credits</b>	<b>60-64</b>

### Course Sequencing

## First Semester

Intended as a guide for academic planning. It need not be followed exactly or completed in four semesters.

Item #	Title	Credits
ENGL 1110	College Communication	3.0
CRST 1010	Computer Hardware Technologies	0.0-4
MATH 1230	Elements of Applied Mathematics I	3.0
CSNT 1200	Introduction to Networks	0.0-4
	Diversity, Equity, Inclusion, Social Justice (DEI/SJ) Course	3

## Second Semester

Item #	Title	Credits
ENGL 1020	College Composition II	3.0
	Social Sciences or Humanities elective	3
CSNT 1500	Routing and Switching Essentials	0.0-4
CRST 1030	Operating System Technologies	0.0-4
	Information Technology Elective	3

## Third Semester

Item #	Title	Credits
CRST 2040	Systems Configuration and Maintenance	0.0-4
CSNT 2200	Network Software	0.0-4
PHYS 1010	Elementary Physics	0.0-4
CSNT 2400	Scaling Networks	0.0-4

## Fourth Semester

Item #	Title	Credits
CRST 2050	Information Tech Practicum	3.0
CSNT 2700	Cloud System Administration	0.0-4
CSNS 1610	Fundamentals of Information Security	0.0-4
	Social Sciences or Humanities elective	3

# Footnotes

Social Science or Humanities Elective: PSYC 1101 recommended.

Information Technology Elective: Select from CRST, CSCS, CSIT 1320, 2044 or higher; CSNS and CSNT courses with advisor's approval. CSCS 1730 recommended.

Diversity, Equity, Inclusion, Social Justice (DEI/SJ) Course: See General Education Requirements for courses that meet this requirement.

ENGL 1110: Students may take ENGL 1010 and SPCH 1080 in place of ENGL 1110.

\*Based on placement, students might be required to take developmental and/or prerequisite classes before taking the required English and Math courses.

\*\*Adviser assistance in selection of courses is highly recommended