Computer Information Systems

With the continual development and use of computers in business and industry, growing need continues for personnel proficient in business programming, networking, equipment repair, software applications, and cybersecurity, as well as computer operations. To address these skills, the Computer Science Department offers an Associate of Applied Science (AAS) Networking Degree, an Associate of Science transfer degree (AS), an Associate of Applied Science Degree in Cybersecurity, and five workforce certificate programs.

The Associate of Science (AS) degree is designed to prepare students for transfer to a four-year university as a Computer Science or Computer Information Systems major. The program will provide students with a background in basic academic areas such as mathematics and the sciences, as well as introductory work in the computer areas of logic design, programming concepts, and programming languages.

The department offers a certificate in Computer Information Systems that provides training for careers in database support, software applications, and computer operations.

Additionally, an Associate of Applied Science Networking degree is designed to prepare students to perform tasks in network technology relating to network management, technical support, hardware/software installation, security servers, and equipment repair. Network and A+certification training is available.

The program graduate will be able to assemble computers based on customer requirements, install network wiring and interfaces at customer sites, install and debug network software, and maintain network hardware and software.

The Cybersecurity program offers both a certificate and an Associate of Applied Science in Cybersecurity. Graduates will have the ability to conduct risk and vulnerability assessments of existing and proposed networked systems, understand cyber defense and attack methods, demonstrate techniques to design a secure network, and troubleshoot an information security system.

Associate of Science in Computer Science (60 Semester Credit Hours) Suggested Course of Study for University Transfer Students

First Semester - 15 SCH	Second Semester - 15 SCH
COSC 1301 EDUC/PSYC 1300 ENGL 1301 HIST 1301 MATH 1314	DRAM 1310 ENGL 1302 HIST 1302 MATH 2312 SPCH 1321
Third Semester - 17 SCH	Fourth Semester - 13 SCH
COSC 1336 MATH 2413 ECON 2302 GOVT 2305 PHYS 2425	COSC 1337 COMM 1307 GOVT 2306 PHYS 2426

CERTIFICATE IN BUSINESS COMPUTER APPLICATIONS (42 Semester Credit Hours)

First Semester (15 SCH)

rirst semester (15 SCH)	
ACNT 1303	Introduction to Accounting I
ITSC 1305	Introduction to PC Operating Systems
ITSC 1309	Integrated Software Applications I
ITSW 1304	Introduction to Spreadsheets
POFT 1321	Business Math
Second Semester (15 SCH)	
ACNT 1311	Introduction to Computerized Accounting
IMED 1316	Web Design I
ITSC 1321	Intermediate PC Operating Systems
ITSW 1307	Introduction to Database
ITSW 2334	
Third Semester (12 SCH)	
ITSC 1364 Practicum	m - Computer and Information Sciences, General
ITSC 2321	Integrated Software Applications II
ITSW 1310	Introduction to Presentation Graphics Software
POFT 2312	Business Correspondence & Communication
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Associate of Applied Science in Networking (60 Semester Credit Hours)

First Semester - 15 SCH	Second Semester - 15 SCH
1118t Jemester - 17 JOH	Second Semester - 17 Seri
PSYC 1300	COSC 1301
DRAM 1310	IMED 1316
ITNW 1325	ITNW 1351
ITSC 1305	ITSC 1321
ITSC 1325	MATH 1332

Third Semester - 15 SCH	Fourth Semester - 15 SCH
ENGL 1301	ITSW 1307
ITNW 1354	ITNW 2305
ITSC 2339	ITSW 2334
ITNW 2313	ITSC 1364
ITSW 1304	ITSY 1342

CERTIFICATE IN COMPUTER SUPPORT TECH - A+ (30 Semester Credit Hours) First Semester (15 SCH)

ITSC 1305	Introduction to PC Operating Systems
	Personal Computer Hardware
	Fundamentals of Networking Technologies
	Networking Hardware
	Personal Computer Help Desk Support
Second Semester (15 SCH)	1

ITNW 1351 Fundamentals of Wireless LANs

The service of the se
ITNW 1354Implementing and Supporting Servers
ITNW 2305Network Administration
ITSC 1364 Practicum - Computer and Information Systems, General*
ITSY 1342Information Technology Security
*Requires Instructor Permission
CERTIFICATE IN COMPUTER NETWORK TECH - A+ (42 Semester Credit Hours)
First Semester (12 SCH)
ITNW 1325Fundamentals of Networking Technologies
ITSC 1305
ITSC 1325
ITSW 1304
Second Semester (18 SCH)
IMED 1316Web Design I
ITNW 1351
ITNW 2305
ITSC 1321
ITSY 1342
ITSW 2334
Third Semester (12 SCH)
ITNW 1354Implementing and Supporting Servers
ITNW 2313
ITSC 1364 Practicum - Computer and Information Systems, General*
115C, 7229 Personal Computer Field Desk Support
ITSC 2339Personal Computer Help Desk Support *Requires Instructor Permission
*Requires Instructor Permission
*Requires Instructor Permission CERTIFICATE IN CISCO/C-TECH (45 Semester Credit Hours)
*Requires Instructor Permission CERTIFICATE IN CISCO/C-TECH (45 Semester Credit Hours) First Semester (12 SCH)
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CERTIFICATE IN CISCO/C-TECH (45 Semester Credit Hours) First Semester (12 SCH) COSC 1301

Associate of Applied Science in Cybersecurity* (60 Semester Credit Hours)

First Semester - 15 SCH	Second Semester - 15 SCH
COSC 1301	ITCC 1344
ITCC 1314	ITSY 1342
ITSC 1305	ITNW 1354
ITSY 1300	ITNW 2305
ENGL 1301	MATH 1332

Third Semester - 15 SCH	Fourth Semester - 15 SCH
ITSY 2330	ITSY 2343
ITSY 2300	ITSY 2342
ITSY 2301	ITSY 2345
ITSC 1325	GAME 1301
DRAM 1310	ECON 2302

CERTIFICATE IN CYBERSECURITY* (48 Semester Credit Hours)

First Semester (12 SCH)

COSC 1301	Introduction to Computing
	CCNA 1: Introduction to Networks
ITSC 1305	Introduction to PC Operating Systems
	Fundamentals of Information Security
Second Semester (12 SCH)	•

ITCC 1344	
ITSY 1342	Information Technology Security
ITNW 1354	Implementing and Supporting Servers
ITNW 2305	Network Administration

Third Semester (12 SCH)

ITSY 2330	Intrusion Detection
ITSY 2300	Operating System Security
	Firewalls and Network Security
	Personal Computer Hardware

Fourth Semester (12 SCH)

TTSY 2343	Computer System Forensics
	Incident Response & Handling
	Network Defense and Countermeasures
GAME 1301	