

**Recommended Sequence of Courses**

**First Semester**
- CPT 102 Basic Computer Concepts 3
- CPT 209 Computer Systems Management 3
- CPT 210 Computer Resource Management 3
- IST 220 Data Communications 3

**Total 12**

**Second Semester**
- IST 161 Introduction to Network Administration 3
- IST 166 Network Fundamentals 3
- IST 190 Linux Essentials 3
- IST 293 IT and Data Assurance I 3

**Total 12**

**Cybersecurity**

**Certificate in Applied Science**
**Credit Requirements: 30 Semester Credit Hours**

This certificate program is designed for individuals who have experience or training in systems and network operations. It is designed to provide expertise in information assurance and cybersecurity to prepare you for employment in the fast growing field of cybersecurity. It is ideal if you are employed or are pursuing employment in a business that includes a cybersecurity workforce as part of the organization. This program presents the knowledge and skills needed to develop and implement security of systems and infrastructure in business and industry. This program will help you prepare for COMPTIA Linux+, Security+, EC-Council Certified Ethical Hacking, as well as a number of other certification exams.

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test.

**Recommended Sequence of Courses**

**First Semester**
- CPT 282 Information Systems Security 3
- IST 165 Implementing and Administering Windows Directory Services 3
- IST 190 Linux Essentials 3
- IST 268 Computer Forensics 3
- IST 293 IT and Data Assurance I 3

**Total 15**

**Second Semester**
- IST 191 Linux Systems Administration 3
- IST 291 Fundamentals of Network Security I 3
- IST 294 IT and Data Assurance II 3
- IST 269 Digital Forensics 3
- IST 292 Fundamentals of Network Security II 3

**Total 15**

**Database Administrator**

**Certificate in Applied Science**
**Credit Requirements: 18 Semester Credit Hours**

This certificate prepares students for employment with companies looking for database professionals. Starting with a basic computer class, students progress course by course to a skill level where they can work in any database environment. The curriculum uses both MS Access and SQL Server to teach students how to design, build, manipulate and maintain business database management systems.

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test.

**Recommended Sequence of Courses**

**First Semester**
- CPT 102 Basic Computer Concepts 3
- CPT 114 Computers and Programming 3
  or
  CPT 167 Introduction to Programming Logic 3
- CPT 172 Microcomputer Database 3

**Total 9**

**Second Semester**
- CPT 242 Database 3

**Total 3**

**Third Semester**
- IST 272 Relational Database 3
- IST 274 Database Administration 3

**Total 6**

**Enterprise Network Administrator**

**Certificate in Applied Science**
**Credit Requirements: 27 Semester Credit Hours**

This program prepares you for network technician jobs. It is designed for students who are employed in businesses that use or plan to use a computer network and need on-site primary support.
Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test.

Recommended Sequence of Courses
First Semester
CPT 102 Basic Computer Concepts 3
IST 161 Introduction to Network Administration 3
IST 165 Implementing and Administering Windows Directory Services 3
IST 190 Linux Essentials 3
IST 220 Data Communications 3
Total 15

Second Semester
IST 164 Implementing Windows Network Infrastructure Services 3
IST 166 Network Fundamentals 3
IST 191 Linux System Administration 3
IST 253 LAN Service and Support 3
Total 12

International Business
Certificate in Applied Science
Credit Requirements: 26 Semester Credit Hours
This certificate develops the basic skills necessary to enter the international business environment. The certificate includes studies in the areas of international business, marketing and management. Students are exposed to the power of the internet along with cultural and political issues within the international business community. Students also study a foreign language(s) as a foundation to understanding the social and communication issues within that environment.

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test.

Recommended Sequence of Courses
First Semester – Fall
BUS 250 Introduction to International Business 3
CPT 220 e-Commerce 3
ECO 207 International Economics 3
Total 9
Second Semester – Spring
BUS 220 Business Ethics 3
PSC 220 Introduction to International Relations 3
ELE FLG1 Select a foreign language elective 4
Total 10
Third Semester – Summer
BUS 176 International Marketing 3
ELE FLG1 Select a foreign language elective 4
Total 7

ELE FLG1/Foreign Language Electives
FRE 101 Elementary French I 4
FRE 102 Elementary French II 4
GER 101 Elementary German I 4
GER 102 Elementary German II 4
SPA 101 Elementary Spanish I 4
SPA 102 Elementary Spanish II 4

Internet Programming
Certificate in Applied Science
Credit Requirements: 21 Semester Credit Hours
This certificate program prepares students for employment with companies looking for internet programming professionals. Starting with a basic computer class, students progress course by course to a skill level where they can work in any internet programming environment. The curriculum uses many of the current programming languages to teach students how to design, build, manipulate and maintain business websites.

Admission into this program requires proof of high school graduation (or GED) and qualifying scores on SAT, ACT or the TTC placement test.

Recommended Sequence of Courses
First Semester
CPT 102 Basic Computer Concepts 3
CPT 162 Introduction to Web Page Publishing 3
CPT 114 Computers and Programming 3
or
CPT 167 Introduction to Programming Logic 3
Total 9
Second Semester
CPT 262 Advanced Web Page Publishing 3
IST 239 Datum and JavaScript 3
Total 6