**INFORMATION SYSTEMS TECHNOLOGY**

**CYBER DEFENSE**

**Associate of Applied Science**

*[JACKSON, N. & LEWIS, N.]*

The Cyber Defense concentration focuses on network security, and digital forensics. Students will be

prepared to design, test, implement, and monitor computer systems and networks in the following entities:

state and federal government, telecommunications industries, internet-based companies and computer

consulting environments upon completion of this program. An Associate in Applied Science degree is

earned upon successful completion of the Information Systems Technology curriculum. The Information

Systems curriculum also presents students with the opportunity to obtain multiple certifications. CompTIA

certifications are known throughout the IT community as one of the best ways to break into the field and

build a solid career. CompTIA A+, Network+, and Security+ certification objectives are built into the

curriculum.

***A Composite ACT score of 17 is required for entrance into this program.***

**FRESHMAN YEAR**

**First Semester** *Hours*  **Second Semester** *Hours*

IST 1183 Essentials of IST ....................................... 3 IST 1163 Concepts of Database Design ..................... 3

IST 1133 Fundamentals of Data Communications ... 3 IST 1193 Practical App in IST .................................... 3

IST 1433 Web Development using HTML & CSS ... 3 IST 1143 Security Principles & Policies ..................... 3

IST 2373 C# Programming ....................................... 3 IST 1613 Computer Forensics ..................................... 3

IST 1483 Fundamentals of Virtualization ................. 3 ENG 1113 English Composition I …………………… 3

Total Hours 15 Total Hours 15

**SOPHOMORE YEAR**

**First Semester** *Hours*  **Second Semester** *Hours*

IST 2623 Linux/Unix Security ................................. 3  SPT 1113 Public Speaking I .................................... 3

IST 2253 Adv Network Admin using MS Win Server ... 3 IST 2323 Script Programming ................................. 3

IST 1643 Network Defense & Countermeasure …... 3 IST 2923 Special Problems in IST ………..…….... 3

IST 2493 Cloud Computing …………………….…. 3 IST 2633 Security Testing & Implementation …..... 3

MAT1313 College Algebra ...................................... 3 Elective (Social/Behavioral Science) ....................... 3

Elective (Fine Arts) ................................................... 3

Total Hours 18 Total Hours 15

**INFORMATION SYSTEMS TECHNOLOGY**

**iOS APP & SOFTWARE DEVELOPMENT**

**Associate of Applied Science**

*[JACKSON, N. & LEWIS, N.]*

The iOS App Development concentration emphasizes the development of knowledge and skills necessary to

work with mobile networks and devices. Courses specific to the concentration address communications,

networks, security, and Swift programming language. Students will be prepared to

to find employment in following entities: state and federal government, telecommunications industries,

internet based companies and computer consulting environments upon completion of this program. An

Associate in Applied Science degree is earned upon successful completion of the Information Systems

Technology curriculum. The Information Systems curriculum also presents students with the opportunity to

obtain multiple certifications.

***A Composite ACT score of 17 is required for entrance into this program.***

**FRESHMAN YEAR**

**First Semester** *Hours*  **Second Semester** *Hours*

IST 1183 Essentials of IST......................................... 3 IST 1143 Security Principles & Policies .................... 3

IST 1133 Fundamentals of Data Communications …. 3 IST 1163 Concepts of Database Design ...................... 3

IST 1433 Web Development using HTML & CSS … 3 IST 1413 Client-Side Programming ........................... 3

IST 2373 C# Programming ........................................ 3 IST 1453 Principles of Mobile App Development …... 3

IST 1483 Fundamentals of Virtualization .................. 3 IST 1193 Practical Applications in IST ....................... 3

ENG 1113 English Composition I ............................... 3

Total Hours 15 Total Hours 18

**SOPHOMORE YEAR**

**First Semester** *Hours*  **Second Semester** *Hours*

IST 2313 Systems Analysis & Design ………...….…. 3 SPT 1113 Public Speaking I ................................... 3

IST 2593 Advanced C# Programming …..................... 3  IST 2323 Script Programming ................................ 3

IST 2533 IT Project Management ............................... 3 IST 2453 Mobile App Development ....................... 3

IST 2493 Cloud Computing ………………..…….…. 3 IST 2923 Special Problems in IST ………..…….... 3

MAT 1313 College Algebra ....................................... 3 Elective (Social/Behavioral Science) ..................... 3

Elective (Fine Arts) .................................................... 3

Total Hours 18 Total Hours 15

**INFORMATION SYSTEMS TECHNOLOGY**

**SYSTEM ADMINISTRATION**

**Associate of Applied Science**

*[JACKSON, N. & LEWIS, N.]*

The System Administration option is a two-year program which offers training in computer repair, network, server maintenance/administration, and testing of websites, Internet programming, and database interaction. Opportunities for employment for students with this expertise in Information Systems Technology include state and federal government, telecommunications industries, internet based companies and computer consulting. An Associate in Applied Science degree is earned upon successful completion of the System Administration curriculum. The System Administration curriculum will allow the student to obtain up to three CompTIA certifications. CompTIA certifications are known throughout the IT community as one of the best ways to break into the information technology field and build a solid career. CompTIA A+, Network+, and Security+ certification objectives are built into the curriculum.

***A Composite ACT score of 17 is required for entrance into this program.***

**FRESHMAN YEAR**

**First Semester** *Hours*  **Second Semester** *Hours*

IST 1183 Essentials of IST......................................... 3 IST 1143 Security Principles & Policies ..................... 3

IST 1133 Fundamentals of Data Communications ... 3 IST 1163 Concepts of Database Design ...................... 3

IST 1433 Web Development using HTML & CSS … 3 IST 1413 Client-Side Programming ............................ 3

IST 2373 C# Programming ....................................... 3 IST 1193 Practical Applications in IST ....................... 3

IST 1483 Fundamentals of Virtualization ................. 3 ENG 1113 English Composition I ............................... 3

Total Hours 15 Total Hours 18

**SOPHOMORE YEAR**

**First Semester** *Hours*  **Second Semester** *Hours*

IST 2253 Adv Network Admin using MS Win Server .... 3 SPT 1113 Public Speaking I .................................. 3

IST 2593 Advanced C# Programming …................ 3  IST 2323 Script Programming ............................... 3

IST 2493 Cloud Computing …………………….…. 3 IST 2923 Special Problems in IST ......................... 3

MAT1313 College Algebra ...................................... 3 IST 2633 Security Testing & Implementation ........ 3

Elective (Fine Arts) .................................................. 3   IST 1213 Client Installation & Configuration ........ 3

Elective (Social/Behavioral Science) ..................... 3

Total Hours 15 Total Hours 18

**INFORMATION SYSTEMS TECHNOLOGY**

**Extended Reality (XR)**

**Associate of Applied Science**

*[JACKSON, N. & LEWIS, N.]*

The Extended Reality (XR) option is a two-year program which offers training in virtual/augmented reality.

Opportunities for employment for students with this expertise in Information Systems Technology include state and federal government, telecommunications industries, internet based companies and computer consulting. An Associate in Applied Science degree is earned upon successful completion of the Extended Reality (XR) curriculum. The Extended Reality (XR)curriculum will allow the student to obtain a Unity certification. Unity certifications are known throughout the IT community as one of the best ways to break into the information technology field and build a solid career. Unity Certified User certification objectives are built into the curriculum.

***A Composite ACT score of 17 is required for entrance into this program.***

**FRESHMAN YEAR**

IST 1183 Essentials of IST.......................................... 3 IST 1163 Concepts of Database Design ..................... 3

IST 1133 Fundamentals of Data Communications …. 3 IST 1413 Client-Side Programming ........................... 3

IST 1433 Web Development using HTML & CSS …. 3 IST 2854 Extended Reality (XR) Digital Artistry ….. 4

IST 2373 C# Programming ......................................... 3 IST 1193 Practical App in IST .................................... 3

IST 1483 Fundamentals of Virtualization .................. 3 ART 1513 Computer Art.............................................. 3

Total Hours 15 Total Hours 16

**SOPHOMORE YEAR**

**First Semester** *Hours*  **Second Semester** *Hours*

IST 2824 Extended Reality (XR) 3D Modeling ……... 4 SPT 1113 Public Speaking I ................................... 3

IST 2844 Extended Reality (XR) Development ……... 4 IST 2844 Extended Reality (XR) Project Design ... 4

MAT 1313 College Algebra .......................................... 3 IST 2323 Script Programming ............................... 3

IST 2593 Advanced C# Programming …...................... 3 Elective (Social/Behavioral Science) ...................... 3

IST 2313 Systems Analysis & Design …………….…. 3 ENG 1113 English Composition I ........................... 3

Total Hours 18 Total Hours 16