



John A. Logan College

Associate in Applied Science

Toward a Degree in

Cyber-Security/Information Assurance

Career Curriculum CIS 2015
Minimum Hours: 65
Major Code: 1.2 111003
Effective Date: Fall 2020

FIRST YEAR – FALL SEMESTER

| Dept. | No. | | Hrs. | Grade |
|-------|-----|--|--------|-------|
| ORI | 100 | College 101 | 1 | _____ |
| CIS | 207 | Computer Applications for Business | 3 | _____ |
| CIS | 170 | CISCO I | 5 | _____ |
| CIS | 200 | Network Essentials | 3 | _____ |
| CIS | 206 | Managing Network Environment I | 3 | _____ |
| MAT | 120 | Elementary Statistic OR MAT 119 Elementary Statistics with Integrated Review OR BUS 111 Business Mathematics | 3 3 | _____ |
| | | | 18 | |

FIRST YEAR – SPRING SEMESTER

| Dept. | No. | | Hrs. | Grade |
|--|-----|---|------|-------|
| CIS | 208 | Security Awareness | 3 | _____ |
| CIS | 230 | Operating Systems | 3 | _____ |
| CIS | 270 | CISCO II ¹ | 4 | _____ |
| ENG | 113 | Professional Technical Writing OR ENG 101 English Composition* | 3 | _____ |
| Elective – Track 1 or Track 2 ³ | | | 3 | _____ |
| | | | 16 | |

SECOND YEAR – FALL SEMESTER

| Dept. | No. | | Hrs. | Grade |
|---|-----|-------------------------------|---------|-------|
| CIS | 171 | Intro to Scripting | 4 | _____ |
| CIS | 216 | Cloud Technology ¹ | 3 | _____ |
| CIS | 219 | Ethical Hacking ¹ | 3 | _____ |
| ELT | 214 | A+ Preparation IT Technician | 3 | _____ |
| IAI Social and Behavioral Science Elective ² OR If following Track I: CIS 229 | | | 3 16 | _____ |

SECOND YEAR – SPRING SEMESTER

| Dept. | No. | | Hrs. | Grade |
|---|-----|--|---------|-------|
| CIS | 213 | Penetration Testing ¹ | 3 | _____ |
| CIS | 231 | Firewalls and VPN's ¹ | 3 | _____ |
| PHL | 121 | Introduction to Logic | 3 | _____ |
| COM | 115 | Speech OR COM 116 Interpersonal Communication | 3 | _____ |
| Elective – Track 1 or Track 2 ³ OR If following Track I: IAI Social & Behavioral Science Elective ² | | | 3 15 | _____ |

NOTES AND INFORMATION

| Fall Only Courses: | | Spring Only Courses: | |
|--------------------|---------|----------------------|---------|
| CIS 170 | CIS 229 | CIS 270 | ELT 210 |
| ELT 214 | | CIS 209* | ELT 218 |
| CIS 216 | | CIS 213 | |
| CIS 219 | | CIS 231 | |

*Course requires a grade of "C" or above

¹ These courses have a prerequisite.

² PSY 132 is recommended.

³ **Track 1 Electives** – CIS 209 – Introduction to Cybercrimes-spring only class, CIS 229 – Digital Forensics¹- fall only class. CIS 209* is prerequisite to CIS 229.

³ **Track 2 Electives** – ELT 210 – A+ Preparation Essentials, ELT 218 – Intro to Network Technologies. Both classes taught spring semesters only.

Note: Students planning on following Track 1 should take CIS 209 during the first year, spring semester and CIS 229 during the second year, fall semester. The IAI Social Science course may then be taken during the second year, spring semester.

The Cyber-Security/Information Assurance AAS Degree (CIS 2015) is an ICCB approved extension of the Computer Forensics AAS Degree (CIS 2012).

The minimum general education component for the Associate in Applied Science degree requires satisfactory completion of at least 15 semester credits of coursework distributed over the disciplines of Communications, Mathematics, Arts and Humanities, Physical and Life Sciences, and Social and Behavioral Sciences. The curriculum guide for each Associate in Applied Science degree program will spell out the course requirements or options available for satisfying the general education component. With appropriate justification and in consultation with your academic advisor, a request to substitute a course for one recommended in this guide may be granted with the appropriate approvals from the Department Chair, Dean for Instruction and Vice-President for Instruction. However, no substitutions are allowed in Groups I-III (General Education Component; GECC) of the curriculum guide (see the Associate in Applied Science general degree requirements worksheet in the John A. Logan College Catalog).

Students planning to transfer and pursue a baccalaureate degree should, when given a choice, enroll in the general education course that is IAI GECC approved and articulated with participating Illinois institutions.

Career Opportunities: This degree is for students that want to work in a small to medium size business environment with routers, firewalls, and VPN's managing develop security policies and design networks while keeping data secure. Preparation for COMPTIA, Net+, A+, CCENT and CCNA certifications can be obtained through this degree. Graduates will be qualified for careers in cybersecurity and information assurance in federal, state and local agencies, and the private sector.

John A. Logan College reserves the right to modify this curriculum guide as needed. Please verify with your academic advisor the accuracy and time lines of this document.