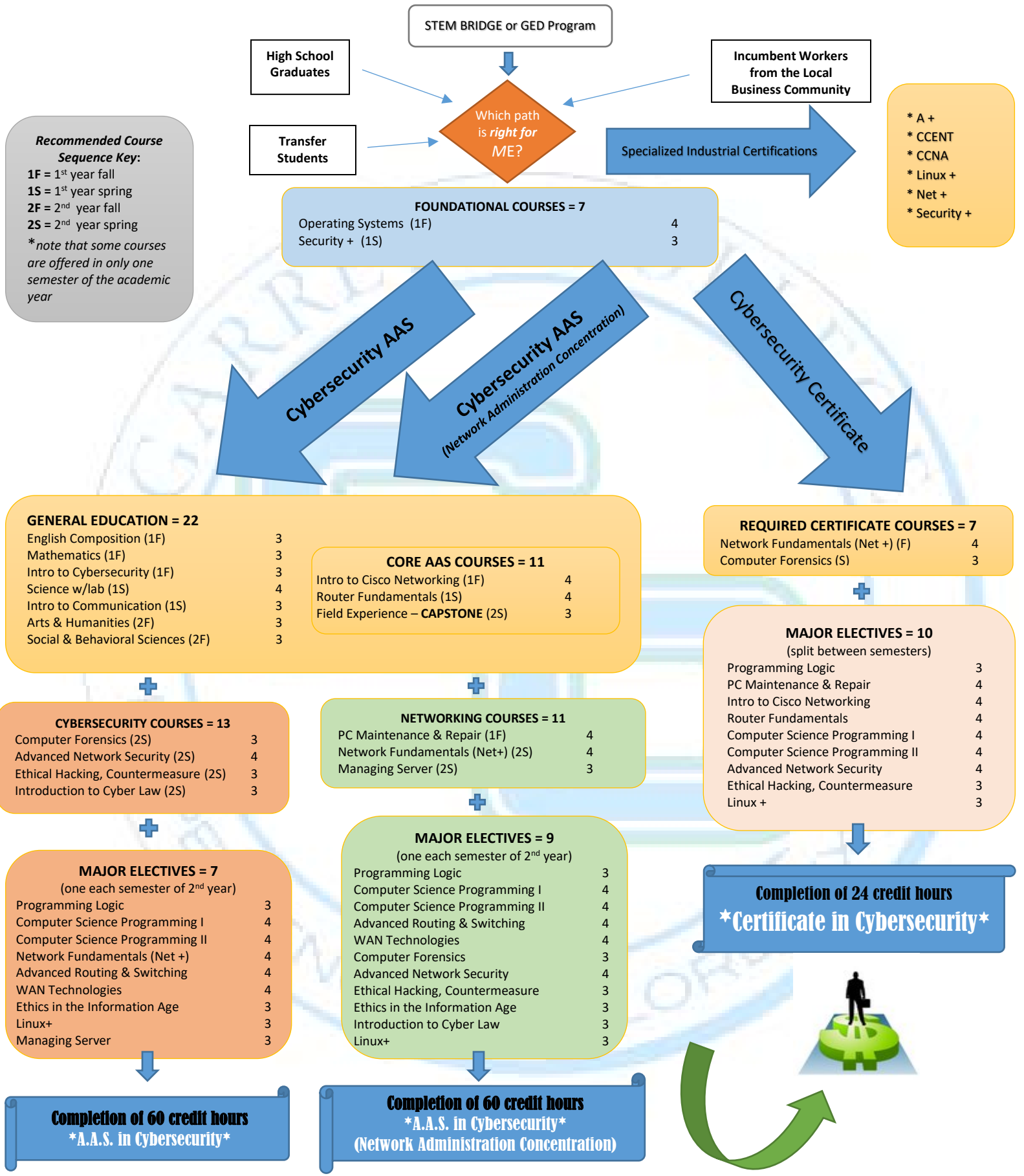


# GARRETT COLLEGE CYBERSECURITY CAREER PATHWAY



This workforce product was funded by grant #TC-26466-14-60-A-24, awarded by the U.S. Department of Labor's Employment and Training Administration. The product was created by the grantee and does not necessarily reflect the official position of the U.S. Department of Labor. The U.S. Department of Labor makes no guarantees, warranties, or assurances of any kind, express or implied, with respect to such information, including any information on linked sites and including, but not limited to, accuracy of the information or its completeness, timeliness, usefulness, adequacy, continued availability, or ownership.

# CYBERSECURITY

The **Cybersecurity** program awards an **Associate of Applied Science (A.A.S.) degree**, designed to prepare students to enter the workforce in the cybersecurity industry. The curriculum is structured to help students develop the knowledge and skills for work in the field of computer and network security, including many offensive and defensive simulated real-world tasks that they are likely to encounter in their careers. Areas of study include security issues regarding operating systems, software engineering, networking, ethics, and other related topics. Graduates of the program will be well prepared to enter the workforce in the fields of information security, computer network security, and/or network administration.

Students have the option of taking **the Network Administration concentration** of the **Cybersecurity A.A.S. degree**. This concentration focuses on the creation and maintenance of computer networks.

## **Cybersecurity—Associate of Applied Science (A.A.S.) degree**

### **FOUNDATIONAL AND CORE COURSES (18):**

- CIS160 Operating Systems
- CIS163 Introduction to Cisco Networking
- CIS164 Router Fundamentals
- CIS230 Security+
- CIS294 Field Experience

### **CYBERSECURITY COURSES (13):**

- CIS231 Computer Forensics
- CIS232 Advanced Network Security
- CIS233 Ethical Hacking, Countermeasure
- CIS235 Introduction to Cyber Law
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### **MAJOR ELECTIVES (7) – Choose from the following:**

- CIS130 Programming Logic
- CIS170 Computer Science Programming I
- CIS210 Computer Science Programming II
- CIS220 Networking Fundamentals (Net+)
- CIS221 Advanced Routing and Switching
- CIS222 WAN Technologies
- CIS234 Ethics in the Information Age
- CIS240 Linux+
- CIS241 Managing Server

## **Cybersecurity—A.A.S. degree (Network Administration concentration)**

### **FOUNDATIONAL AND CORE COURSES (18):**

- CIS160 Operating Systems
- CIS163 Introduction to Cisco Networking
- CIS164 Router Fundamentals
- CIS230 Security+
- CIS294 Field Experience

### **NETWORKING COURSES (11):**

- CIS161 PC Maintenance & Repair
- CIS220 Networking Fundamentals (Net+)
- CIS241 Managing Server

### **MAJOR ELECTIVES (9) – Choose from the following:**

- CIS130 Programming Logic
- CIS170 Computer Science Programming I
- CIS210 Computer Science Programming II
- CIS220 Networking Fundamentals (Net+)
- CIS221 Advanced Routing and Switching
- CIS222 WAN Technologies
- CIS231 Computer Forensics
- CIS232 Advanced Network Security
- CIS233 Ethical Hacking, Countermeasure
- CIS234 Ethics in the Information Age
- CIS235 Introduction to Cyber Law
- CIS240 Linux+

The recently-released Cyber Security Jobs Report (January 2013) estimates that there are over 19,000 current cybersecurity job openings in the State. The report also states that “it appears there is a great need for candidates with 0-5 years’ experience.” A full 20 percent of these jobs (>3,800) are available to candidates with an Associate’s degree or less, according to data presented in the report.

*For more information, please contact:*

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