



# Cybersecurity and Information Assurance A.S. Degree - CalGETC

This program prepares IT professionals to apply knowledge and experience in risk management and digital forensics to safeguard infrastructure and secure data through continuity planning and disaster recovery operations. Courses deliver proven methods for information security using software analysis techniques, cloud management, and networking strategies to prevent, detect, and mitigate cyber attacks. This program also provides preparation for several nationally recognized, high-demand certifications in the field of Cybersecurity.

**Total Units: 68-70**

## First Year

### Semester 1

16-18 Units

| COURSE   | UNITS | PRE-REQS <sup>^</sup>   | SEMESTERS OFFERED* | GE AREA          |
|--|-------|---|--------------------|------------------|
| <b>CISC 310</b> <b>Z</b><br>Introduction to Computer Information Science           | 3     | Advisory: familiar with basic functions of word process, spreadsheet, web browser software applications | F(O), S(O), Su(O)  |                  |
| <b>CISC 360</b> <b>Z</b><br>Information & Communication Technology Essentials (A+) | 4     | Advisory: CISC 302 & 310  | F(O), S(O), Su(O)  |                  |
| <b>CalGETC Area 1A-English Composition</b> <b>Z</b>                                | 3     | Recommend meeting with a counselor  | F, S, Su           | Cal-GETC Area 1A |
| <b>CalGETC Area 2-Math &amp; Quantitative Reasoning<sup>1</sup></b> <b>Z</b>       | 3-5   | Recommend meeting with a counselor  | F, S, Su           | Cal-GETC Area 2  |
| <b>CalGETC 3A-Arts</b> <b>Z</b>  | 3     |   | F, S, Su           | Cal-GETC Area 3A |

**Z** At least one section of this course is offered with free textbooks and is labeled as zero textbook costs (ZTC). If it is a GE area class or elective, there may be several ZTC offerings to fulfill the GE

## Career Options/Outlook:

Plan, implement, upgrade, or monitor security measures for the protection of computer networks and information. May ensure appropriate security controls are in place that will safeguard digital files and vital electronic infrastructure. May respond to computer security breaches and viruses. **Career opportunities may require more than two years of college study.**

## A sample of reported job titles:

Security analyst, network system security administrator, security policy analyst, information security analyst, data security administrator information security officer, information security specialist, information system security analyst, IT security analyst, IT specialist, network security analyst

## Projected job openings in US (2021-2031):

19,500

requirement. Use the Free Textbook filter to find these courses. Learn more on the [ZTC page of the college website](#).

<sup>1</sup> Suggestion- MATH 400 Calculus I (5 units); Pre-req: MATH 370; F, S, Su

## Semester 2

18 Units

| COURSE  | UNITS | PRE-REQS <sup>^</sup>  | SEMESTERS OFFERED*   | GE AREA          |
|---|-------|--|----------------------|------------------|
| <b>CISN 300</b> <sup>1</sup><br>Network Systems Administration      | 3     | Advisory:<br>CISC 310  | F(O), S(O),<br>Su(O) |                  |
| <b>CISN 304</b> <sup>2</sup> <b>Z</b><br>Networking Technologies    | 3     | Co-req:<br>CISC 323 &<br>356;<br>Advisory:<br>CISC 302,<br>308, or 310 | F(O), S(O)           |                  |
| <b>CISS 310</b> <sup>3</sup><br>Network Security Fundamentals       | 3     | Advisory:<br>CISN 300 &<br>304   | F(O), S(O)           |                  |
| <b>CalGETC Area 1B-Critical Thinking &amp; Composition</b> <b>Z</b> | 3     |  | F, S, Su             | Cal-GETC Area 1B |
| <b>CalGETC Area 3B-Humanities</b> <b>Z</b>                          | 3     |  | F, S, Su             | Cal-GETC Area 3B |
| <b>CalGETC Area4-Social &amp; Behavioral Science</b> <b>Z</b>       | 3     |  | F, S, SU             | Cal-GETC Area 4  |

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<sup>1</sup> or Microsoft AZ-800 certification

<sup>2</sup> or CompTIA Network+ certification

<sup>3</sup> or CompTIA Security+ certification

## Year 2

## Semester 3

18 Units

## Projected growth in US (2021-2031):

35% growth

## Median Salary in California with advanced degree (2021):

\$102,600/yr

## Source:

<https://www.onetonline.org/link/summary/15-1212.00?redir=15-1122.00>

## Transfer notes:

Please meet with a counselor for specific transfer course evaluation or transferring to a specific 4-year institution.

## General Education (GE):

Non-specified GE courses identified by CRC or Cal-GETC Area without pre- or co-requisites can be taken at any semester.

## Honors option:

The CRC Honors Program is designed specifically for academically accomplished students and for students with the potential for high achievement. Students who complete 15 units or more in honors-designated courses will earn special recognition as an Honors Scholar, a distinction that may entitle the student to guaranteed transfer and scholarship opportunities at select transfer colleges and universities.

| COURSE  | UNITS | PRE-REQS^                                    | SEMESTERS OFFERED* | GE AREA             |
|---|-------|--|--------------------|---------------------|
| <b>CISS 315</b><br>Ethical Hacking  | 3     | CISS 310;<br>Advisory:<br>CISS 300           | F(O)               |                     |
| <b>CISS 321</b> <b>Z</b><br>Scripting for<br>Cyber Security                 | 3     | CISS 315;<br>Advisory:<br>CISN 304<br>or 341 | S(O)               |                     |
| <b>CISS 350</b><br>Disaster<br>Recovery                                     | 3     | CISS 310                                     | F(O)               |                     |
| <b>CalGETC Area<br/>1C-Oral<br/>Communication</b> <b>Z</b>                  | 3     |  | F, S, Su           | Cal-GETC Area<br>1C |
| <b>CalGETC Area<br/>4-Social &amp;<br/>Behavioral<br/>Sciences</b> <b>Z</b> | 3     |  | F, S, Su           | Cal-GETC Area<br>4  |
| <b>CalGETC Area<br/>6-Ethnic<br/>Studies</b> <b>Z</b>                       | 3     |  | F, S, Su           | Cal-GETC Area<br>6  |

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## Semester 4

16 Units

| COURSE  | UNITS | PRE-REQS^             | SEMESTERS OFFERED*      | GE AREA             |
|---|-------|-----------------------|-------------------------|---------------------|
| <b>CISS 353</b><br>Management of<br>Information<br>Security   | 3     | CISS 310              | Check Class<br>Schedule |                     |
| <b>CISS 360</b><br>Computer<br>Forensics and<br>Investigation | 3     | CISS 310              | S(O)                    |                     |
| <b>CISW 375</b><br>Security for<br>Web<br>Development         | 3     | Advisory:<br>CISW 410 | Check Class<br>Schedule |                     |
| <b>CalGETC Area<br/>5A-Physical<br/>Science</b> <b>Z</b>      | 3     |                       | F, S, Su                | Cal-GETC Area<br>5A |

## About this map:

This program map represents one possible pathway to complete the program. Please see a counselor to create an education plan that is customized to meet your needs. This map is not a guarantee of course availability or financial aid applicability.

## Zero Textbook Costs (ZTC):

The Zero Textbook Costs designation and logo are added to any course that provides free access to all required instructional materials. These are typically shared with students through Canvas. Courses that are designated as ZTC may still require students to purchase supplemental materials such as lab coats, a calculator, art supplies, etc. See full definitions and searching tips on the [Zero Textbook Costs page](#) of the college website.

| COURSE                                      | UNITS | PRE-REQS <sup>^</sup> | SEMESTERS OFFERED* | GE AREA          |
|---|-------|-----------------------|--------------------|------------------|
| CalGETC Area 5B-Biological Science <b>Z</b> | 3     |                       | F, S, Su           | Cal-GETC Area 5B |
| CalGETC Area 5C-Lab <b>Z</b>                | 1     |                       | F, S, Su           | Cal-GETC Area 5C |

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