

# CYBERSECURITY, BASIC CERTIFICATE



College(s): DA, HW, KK, MX, OH, TR, WR

Program Code: 0297

The Cybersecurity Basic Certificate program provides foundational knowledge and skill set for beginning students pursuing career opportunities in cybersecurity. With a hands-on approach to learning in this program, students acquire essential to cybersecurity technical knowledge of current and emerging cyber threats, vulnerabilities, and technologies. Students learn to script and code, use and administer current operating systems, and acquire core knowledge in digital networking. Equipped with proper foundation, students learn how to identify security threats and incorporate best practices in detecting and responding to global threats in a forensically sound manner.



## Program Requirements

Code	Title	Hours
<b>Required Program Core</b>		
CIS 103	Fundamentals of Programming	3
CIS 116	Operating System I	3
CIS 255	Operating Systems II	3
COMPSFI 101 or NET TEC 121	Networking Essentials Internetworking I	3
COMPSFI 102	Information Security Essentials	3
COMPSFI 202	Cybercrime and Incident Response	3
<b>Total Hours</b>		<b>18</b>

## Pathway

This is an **example course sequence** for students interested in Cybersecurity. It does not represent a contract, nor does it guarantee course availability.

## Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

Semester 1		Hours
CIS 116	Operating System I (CompTIA A+ Software)	3
COMPSFI 101 or NET TEC 121	Networking Essentials or Internetworking I	3
CIS 103	Fundamentals of Programming (using Python)	3
<b>Hours</b>		<b>9</b>
Semester 2		
CIS 255	Operating Systems II	3
COMPSFI 102	Information Security Essentials (CompTIA Security+)	3
COMPSFI 202	Cybercrime and Incident Response	3
<b>Hours</b>		<b>9</b>
<b>Total Hours</b>		<b>18</b>

Choose your courses with your College Advisor.

## Careers

This program can prepare students for the jobs listed below. Click on each one to learn more, including average earnings, annual job openings, and how much education people in that field have. For additional guidance and resources on career options, current City Colleges students and alumni can contact the Career Services Office (<https://www.ccc.edu/departments/Pages/Career-Services.aspx>).

# Information Security Analysts

## Job Description

Plan, implement, upgrade, or monitor security measures for the protection of computer networks and information. Assess system vulnerabilities for security risks and propose and implement risk mitigation strategies. 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.

## Salary Based on Experience Level

Take a look at the average hourly/annual earnings for this career in Cook County

Lightcast earnings figures are based on OES data from the BLS and include base rate, cost of living allowances, guaranteed pay, hazardous-duty pay, incentive pay (including commissions and bonuses), on-call pay, and tips.

### Annual Wages

Entry-Level 10 <sup>th</sup> Percentile	\$70,243
Median 50 <sup>th</sup> Percentile	\$121,181
Senior-Level 90 <sup>th</sup> Percentile	\$183,449

### Hourly Wages

Entry-Level 10 <sup>th</sup> Percentile	\$34
Median 50 <sup>th</sup> Percentile	\$58
Senior-Level 90 <sup>th</sup> Percentile	\$88

## Annual Job Openings

156 annual openings in Cook County

## National Education Attainment

Here, you can see the level of education that people in this career complete.

Degree Program	% of Jobs
A high school diploma or less	0.00%
A certificate	7.16%
Some college	2.01%
An Associate degree	12.87%
A Bachelor's degree	75.16%
A Master's or Professional degree	2.80%
A Doctoral degree or more	0.00%

77.96% continue their education beyond an associate degree