Why Cybersecurity?

Why Cyber Security Starts At Home

Even the grandmas on Facebook need to know and practice basic security hygiene, because what happens anywhere on the Internet can eventually affect us all.

Cybersecurity skills shortage demands new workforce strategies

Ten Hot IT Job Skills for 2016

Information Security Analyst

As concern about cybersecurity grows, so does the demand for information security analysts. The BLS predicts employment to ... more

14,800 Projected Jobs | $88,890 Median Salary | 1.4% Unemployment Rate
Course Overview

Introduction to Cybersecurity covers cyber trends, threats and staying safe in cyberspace, protecting personal and company data. It provides awareness of career opportunities in the field of cybersecurity.

Prerequisites: None
Languages: English
Course Delivery: Instructor led or Self-paced
Estimated Time to Complete: 15 hours
Recommended Next Course: Future security course coming

Learning Progression

Upper secondary and junior college students, including non-IT students interested in learning about staying safe online, and career opportunities in the cybersecurity field.

Learning Components

- 5 modules
- Interactive and Instructional Content
- 8 Activities and 7 Labs that reinforce learning
- 4 quizzes, and 1 final exam
- Links to related resources
Introduction to Cybersecurity

Introduction to Cybersecurity helps students:

- Learn the basics of being safe online, an essential skill in today’s world.

- Understand the variety of threats and attacks, and how organizations can protect themselves.

- Learn of the growing need for cybersecurity professionals and explore potential career options.
What’s New in 2.0?

- Easy to use graphical user interface
- Interactive, instructional and updated content:
  - Personal device, data protection and privacy
  - Safe guarding online privacy
  - Updates on cyber threats, attacks, and impact
  - Updates on security vulnerabilities
  - Legal and ethical issues in cybersecurity
- Suitable for non-IT students
- 8 Activities and 7 Labs reinforces learning
- Assessments include end-of module quizzes and 1 final exam
# Course Outline

<table>
<thead>
<tr>
<th>Module</th>
<th>Learning Objectives</th>
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| 1. The Need for Cybersecurity | • Learn the need for and importance of cybersecurity.  
• Understand the characteristics and value of personal data, and data within an organization. |
| 2. Attacks, Concepts and techniques | • Recognize the characteristics and operation of a cyber attack.  
• Interpret the trends in the cyber threat landscape. |
| 3. Protecting Your Data and Privacy | • Understand how to protect devices from threats.  
• Master how to safeguard your privacy. |
| 4. Protecting the Organization | • Learn techniques to protect organizations from cyber attacks.  
• Recognize the behavior-based approach to cybersecurity.  
• Explain Cisco's approach to cybersecurity. |
| 5. Will Your Future Be in Cybersecurity? | • Explore the opportunities for pursuing an education and a career in cybersecurity. |
Module 1: The Need for Cybersecurity

Learn what cybersecurity is and why the demand for cybersecurity professionals is growing.

Module 1 presents:

• What your online identity and data is, where it is, and why it is of interest to cyber criminals.

• What organizational data is, and why it must be protected.

• What cyber warfare is and why organizations, nations, and governments need cybersecurity professionals to protect their citizens and infrastructure.
Module 2: Attacks, Concepts and Techniques

Learn how a cybersecurity professional analyzes a cyberattack.

Module 2 details:

• Security vulnerabilities and the different types of vulnerabilities and malware.
• The techniques used by attackers to infiltrate a system.
• The characteristics and operation of a cyber attack.
• The trends in the cyber threat landscape.
Module 3: Protecting Your Data and Privacy

*Become aware of your personal devices and data.*

Module 3 covers:

- Tips for protecting your personal devices and data by creating strong passwords and using wireless networks safely.
- Authentication techniques helping you maintain your data securely with tips about what to do and what not to do online.
- Protecting devices from threats.
- Safeguarding your privacy.
Module 4: Protecting The Organization

Learn about the technologies, processes, and best practices used when protecting an organization's network.

Module 4 presents

- Equipment, data, and the commonly used security terms such as botnets, the kill chain, and behavior-based security.

- Cisco’s approach to cybersecurity using a CSIRT team and a security playbook.

- Techniques for protecting organizations from cyber attacks.

- The behavior-based approach to cybersecurity.

- Cisco’s approach to cybersecurity.
Module 5: Will Your Future Be in Cybersecurity?

Explore educational paths towards certifications with the Cisco Networking Academy (NetAcad).

Module 5 summarizes

- Certification prerequisites for Specialization Certificates in many areas of networking, including cybersecurity.

- Explore the opportunities for pursuing an education and a career in cybersecurity.
Students
Enrollment and Support

Students:

• Visit the Course information page on Cisco NetAcad.com to enroll in the self-paced course.

• If you need assistance, post questions on the Cisco Networking Academy Facebook page.
Instructors
Enrollment and Support

• Enroll students and teach Introduction to Cybersecurity in their classrooms through the same process used for other NetAcad courses
• No special instructor training required
• If you need assistance, contact your Academy Support Center (ASC)
# Instructor Resources

https://www.netacad.com/group/resources/cybersecurity/2.0

## Intro to Cybersecurity

### Course Overview

Intro to Cybersecurity is a self-paced, 15-hour course that students can complete on their own or it can be offered by an instructor. The course covers the importance of cybersecurity, awareness, data confidentiality, and good practices when using the Internet and social media. It walks students through various aspects of digital security in a broad, easy-to-understand way and explains the value of securing both personal and business data.

The course shows students the great demand for cybersecurity professionals and the opportunities for pursuing a career in security.

### Classroom Resources

- **Instructor Powerpoints**
- **Additional Resources and Activities**

### Lab Resources

- **Students Lab Source Files**
- **Instructor Lab Source Files**
- **Instructor Lab Manual**

### Assessment Resources

- **Course At-A-Glance**
- **Course Overview Powerpoint**
- **Assessment and Overview Video**

### Quick Links

- Scope and Sequence
- FAQ

### News

- **Introduction to Networking Assessment and Curriculum Errata.xls**
  - May 17, 2016
- **New CCNA R&S Bridging Course Available**
  - May 17, 2016
- **New CCNA R&S 6.6 Bridgeable Course**
  - May 11, 2016
Instructor IPD Event

• IPD for instructors during Global IPD Week by TFE team (Q1FY17)
• Resulting recordings will be used for instructor resources/reference
End-of-Life for Introduction to Cybersecurity 1.1

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<thead>
<tr>
<th>Course</th>
<th>Language</th>
<th>Last Class Start Date</th>
<th>Last Class End Date</th>
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<tr>
<td>Introduction to Cybersecurity 1.1</td>
<td>English</td>
<td>August 1, 2016</td>
<td>October 28, 2016</td>
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Simplified Chinese 1.1 version is not EOL.
Thank you.