Cyber to Schools is a California Cybersecurity Institute (CCI) program that prepares students and the future workforce for the digital revolution and careers in space and cyber industries. With a focus on training students and reaching underserved cyber communities, this program strives to highlight non-traditional approaches to learning through training programs and professional certificates. Cyber to Schools reimagines career pathways to tech by emphasizing the Learn by Doing Cal Poly philosophy.

The CCI's Cyber to Schools program allows you to earn skills, certifications, and digital badges that will benefit your future career in tech. Use this Training Pathways Guidebook to identify a Cyber to Schools training pathway that fits your needs.

1. Start with CCI's Digital Literacy Training
2. Determine your topic of interest
   - Cloud
   - Data Science
   - IT
   - Cybersecurity
   - AI/Machine Learning
   - K-5th
3. Continue on your path based on your topic
   - AWS
   - Splunk
   - CISCO
   - Fortinet
   - NVIDIA
   - CCI Recommended Courses
4. Complete the accompanying certification testing and earn your training certificate
5. Identify your career opportunities based on the career maps

For more information, connect with Cal Poly CCI to start your training pathway and learn more about courses, certification testing and other opportunities under the Cyber to Schools initiative. https://cci.calpoly.edu/
Start your Pathway to Tech by completing the CCI’s Digital Literacy training. This 8-hour course includes six modules and is designed to provide information regarding basic information security principals including the CIA triad. The goal of this course is to promote cybersecurity basic defenses for everyone and to direct you into the next steps of your training path based on your topics of interest. Connect with the CCI for more information about training and certifications https://cci.calpoly.edu/.

1. Visit Cal Poly CCI Digital Literacy
2. MI. Cybersecurity Basics
3. MII. Creating a Cyberculture at Your Workplace
4. MIII. Protection from Cyber Threats
5. MIV. Cyberethics, Risk and Compliance
6. MV. Mobile Devices
7. MVI. Social Engineering & Human Hacking
8. Determine your topic of interest and continue training
Amazon Web Services (AWS) 
Cloud Optimization

Start your Cloud journey with Amazon Web Services (AWS) Educate and professional training. Through AWS Educate, students and educators have access to content and programs developed to upskill for careers using cloud technologies. Cal Poly’s AWS Training Program also offers students various courses and exam options to take in order to obtain associate, professional, and specialty AWS certifications.

Refer to the infographic below for a step-by-step training pathway that is customized for cloud computing training under the Cyber to Schools program.

Connect with the CCI for more information about training and certifications https://cci.calpoly.edu/.
Splunk offers training in data science that helps you better understand the fundamentals of IT and systems operations. Splunk Fundamentals focuses on teaching you how to search and navigate in Splunk, use fields, get statistics from your data, create reports, dashboards, lookups, and alerts. The course also includes scenario-based examples and hands-on challenges that will enable you to generate robust reports and introduce you to Splunk’s Pivot interface.

After completing Splunk Fundamentals 1, contact the CCI for your next steps. The CCI can provide further training in Splunk data science valued at $2k for free.

Connect with the CCI for more information about training and certifications https://cci.calpoly.edu/.

1. Register for Splunk Fundamentals 1
2. Contact Cal Poly CCI for next steps with Splunk training
3. Complete Splunk data science training courses
4. Take the Splunk certification tests
5. Identify your career opportunities
CISCO
Networking, IT & Cybersecurity

CISCO offers five separate training pathways focused on helping you identify a career choice. There are over 20 CISCO training courses that the CCI offers, focusing on a variety of tech topics. Networking, IT, Infrastructure, and Cybersecurity are a few of the main focuses of CISCO tech training. Utilize the training pathway infographic below to determine your training topic.

Connect with the CCI for more information about training and certifications https://cci.calpoly.edu/.

1. Go to the CISCO training website and identify your pathway
2. Register for CISCO training
3. Follow your training pathway
4. Complete CISCO training courses in your desired topic to earn digital badges and certifications
5. Identify your career opportunities
NVIDIA offers a full training catalogue of online courses that you can take to build your skills portfolio. Featuring topics like Infrastructure, Data Science, Computing and Deep Learning, the CCI provides both free and paid NVIDIA training courses to students. The CCI recommends having a background in math and data science before taking NVIDIA courses. Follow the training pathway below to prepare for future career opportunities.

Connect with the CCI for more information about training and certifications https://cci.calpoly.edu/.

1. It is recommended that you are strong in math and data science; you can start with Splunk Fundamentals 1

2. Register for NVIDIA’s free training courses in your topic of interest

3. Contact Cal Poly CCI to proceed into the paid training courses

4. Complete paid training and take certification tests

5. Identify your career opportunities
Fortinet
Cybersecurity

Students and professionals alike can take advantage of Fortinet’s self-paced online curriculum of cybersecurity training at no cost. Fortinet cybersecurity courses cover everything from basic cybersecurity awareness to advanced security training. The NSE Training Institute courses offer users several training modules that focus on different cybersecurity topics and their training pathways help learners understand how the courses they take can increase experience for career advancement into different roles.

Connect with the CCI for more information about training and certifications https://cci.calpoly.edu/.

1. Explore Fortinet free training options
2. Identify your training pathway
   3. Take NSE 1 course
   4. Take NSE 2 course
5. Connect with Cal Poly CCI for next steps
6. Plan your career pathway in
   • Security operations
   • Security-Driven Networking
   • Adaptive Cloud Security
   • Zero Trust Access
6. Identify your career opportunities
CCI Recommended Courses
For Kindergarten- 5th Grade

Our Cyber to Schools program does not directly provide training resources for K-5th students. However, we recommend free trainings that teachers can incorporate into their curriculum.

Common Sense Education provides free lessons that teachers can incorporate in their curriculum to teach students about Digital Citizenship. The lessons are divided by grade level and there are a wide range of courses for K-12 students to benefit from. Digital Citizenship: https://www.commonsense.org/education/digital-citizenship

Air Force Association’s CyberPatriot Elementary School Cyber Education Initiative (ESCEI) is a set of three fun, interactive learning modules aimed at increasing grade K-6 students’ awareness of online safety and cybersecurity principles. Supplemental activities are also available to get students collaborating with each other about their newly learned cyber skills. CyberPatriot: https://www.uscyberpatriot.org/Pages/Special%20Initiatives/Elementary-School-Initiative.aspx

Palo Alto Networks’ Cyber A.C.E.S. program is defined as Activities in Cybersecurity Education for Students. Through this program, Palo Alto Networks empowers digital safety for our youth by incorporating interactive learning modules for students ages 5 to 15 that teaches them how to protect their digital future. Cyber A.C.E.S.: https://start.paloaltonetworks.com/cyber-aces.html For Schools: https://www.cyberaces.org/schools.html

Connect with the CCI for more information about Cyber to Schools opportunities for students https://cci.calpoly.edu/.