



LONG BEACH
CITY COLLEGE

LBCC Cybersecurity Program for LBUSD Students

Overview and Frequently Asked Questions

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Goals

- Coordinate with LBUSD schools to develop cybersecurity programs in their schools
- Develop student interest in cybersecurity careers
- Fund student registration in cybersecurity competitions
- Provide training to foster student success in cybersecurity competitions
- Start students on the path to earning their degree at LBCC while teaching them in-demand skills
- Help fill the cybersecurity talent shortage:
<https://www.cyberseek.org/>

Overview of Program

- COSS 680: Cybersecurity Competition Fundamentals
- National Cyber League (NCL)
- CyberPatriot Team Registration
- CyberPatriot CyberCamps
- CyberPatriot Competitions

COSS 680: Cybersecurity Competition Fundamentals

- Zero Credit, Dual-Enrollment Course
- **Registration is now open for Spring 2023**
- Class will start in February 2023, details TBD
 - Anticipate a hybrid class that will be held both on-campus and online on Saturday mornings
- Enrollment Instructions:
<https://www.lbcc.edu/lbusd-cyber-security-programs>

COSS 680 0 units
Cybersecurity Competition Fundamentals
54 hours lecture

Recommended Preparation: COSA 50.

Grading: non graded.

This course prepares students to mentor and participate in various cybersecurity competitions including but not limited to CyberPatriot. Topics include cybersecurity basics, operating system installation and hardening, Windows and Linux administration, and networking fundamentals.

National Cyber League (NCL)

- <https://nationalcyberleague.org/>
- NCL is a Capture-the-Flag competition
 - Includes training resources to go along with the challenges
- LBCC will pay the NCL registration fee for students enrolled in COSS 680
 - NCL is open to college, high school, and middle school students
- Registration will start in February 2023
- Competition runs through April 2023

CyberPatriot Team Registration

- <https://www.uscyberpatriot.org/home>
- CyberPatriot is a cyber defense competition which teaches students how to securely configure operating systems and networks
- A teacher or parent from each school will be required to register as a team coach
<https://www.uscyberpatriot.org/Documents/Team%20Registration%20Instructions.pdf>
- Team registration begins in April 2023
 - The coach will register the team with CyberPatriot
 - LBCC will pay for the registration fee
- Competition begins in Fall 2023

CyberPatriot CyberCamps

- <https://www.uscyberpatriot.org/afa-cybercamps/overview>
- Two CyberCamps (One Basic and One Advanced) will be held in Summer 2023
 - Each camp will be Monday through Friday
 - Dates & Times TBD
 - Plan is for hybrid camps – online and on-campus
- Cost of camp will be paid for by LBCC
- Camp size is limited
 - Priority enrollment will be given to students from COSS 680

CyberPatriot Competition

- <https://www.uscyberpatriot.org/home>
- CyberPatriot competition begins in Fall 2023
- Training to support students throughout the competition will be provided through COSS 680
- Students will need to register for the Fall section of COSS 680
 - Further details will be provided in Spring 2023 when the Fall 2023 registration opens

Recommended Computer Resources

- Students participating in CyberPatriot will benefit greatly by having access to a computer that will support running virtual machines (VMs)
- Computer resources will be available to students when on-campus
- Recommended Configuration for Personal Computer:
 - Windows 10 or 11
 - 8 GB RAM minimum, 16 GB RAM preferred
 - MacOS can be used, but installing virtual machine software on Macs has been troublesome for students
 - Chromebooks **cannot** support virtualization

Summary

- **Priority is for students to register in COSS 680**
 - Enrollment Instructions:
<https://www.lbcc.edu/lbusd-cyber-security-programs>
- We need to identify teachers or parents who can serve as the team coach for CyberPatriot
 - Those interested in serving as a coach can contact [Professor John Sicklick](#)
- A dedicated web site for cybersecurity training programs for LBUSD students is being developed
<https://www.lbcc.edu/lbusd-cyber-security-programs>

Questions?

- For Help with Dual-Enrollment in COSS 680

Early College Initiatives:

Virtual Help Desk is available Mon - Wed, 3:00 pm - 5:00 pm.

<https://lbcc-edu.zoom.us/j/98782330946#success>

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- Questions on the Program:

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