Pathways to Cyber/GenCyber USF Summer Camp

Program Summary
1.0 PROGRAM SUMMARY

The GenCyber Pathways to Cyber camp offers both high school students and teachers an introduction to cybersecurity, providing hands-on experience with a range of tools, skills, and concepts including:

- Kali Linux installation and command line basics
- TCP/IP and Networking basics
- Cybersecurity ethics and security culture
- Metasploit Framework and Wireshark
- Cybersecurity Careers

In summary, two groups of 20 (for a total of 40) high-school students (entering grades 10-12) will work on a 1-1 basis for five days (7 instructional hours each day, total 35 instructional hours) with USF cybersecurity students. Similarly, one group of 20 high-school teachers will be provided with a one-day on-campus workshop, in addition to one day of self-guided online instruction. Both camps will be supported by additional online materials and social platforms developed by Florida Center for Cybersecurity and the Florida Center for Instructional Technology.

Student camp sessions will be held **July 11-15 and 18-22** on the HCC Ybor campus.

The teacher camp session will be held **August 1st** (and online) at the USF Tampa iTeach Lounge.

2.0 PROGRAM OVERVIEW

**Student Camp**

The FC² Pathway to Cyber Camp is designed for rising high school juniors/seniors with a strong interest in information technology and a desire to learn hands-on techniques. Pathway to Cyber allows students to develop the foundational skills necessary for future careers in cybersecurity as well as the basic skills necessary to participate in other cybersecurity efforts and events supported by the FC². With USF student members of the Whitehatters Computer Security Club (WCSC) serving as instructors, high school participants will have an opportunity to engage with and learn from college students who share a similar passion for technology. This five-day, fast-paced program will provide participants a practical learning experience and perspective on the broader field of cybersecurity career options.

In addition to gaining valuable experience in real-world computer security fundamentals, program participants will also have an opportunity to develop relationships with like-minded high school students and become part of a student-driven, cybersecurity social network. Throughout the student camp session, students utilize IRC and Slack to communicate, and students will be encouraged to remain connected with undergraduate mentors once they complete return to their high school studies. Each student will work directly with an undergraduate member of the WCSC, allowing for mentoring and constant supervision of all participants throughout the camp.
The student camp sessions will be hosted at the HCC Ybor City Campus in two separate sessions, July 11-15 and July 18-22. Lunch and parking will be provided.

Teacher Camp
The *Pathway to Cyber* teacher camp will ensure that participating educators are equipped to identify, develop, and provide effective instruction utilizing Cybersecurity First principles. Instructional designers from the Florida Center for Instructional Technology at the USF College of Education will collaborate with WCSC instructors and FC² faculty to create a professional development course involving both online and traditional classroom training. The course will embody the principles of adult education and meet or exceed state and national standards for delivery of professional development for educators.

During the on campus event, experienced FCIT facilitators will lead participants through a series of modules designed to be of immediate practical application in their roles as educators or administrators. Following the day of traditional classroom training and exercises, teacher participants will be provided access to online coursework hosted through the FCIT. Faculty and administrative participants will receive an hourly stipend ($27/hour) for two days of participation, funded through the GenCyber award.

The teacher camp will be hosted on the USF campus in the FCIT iTeach Lounge, on August 1st.

### 3.0 CONTACT INFORMATION

For more information, contact the Camp Director:

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