

CCIT Advisory Committee Meeting

Spring 2024

Thursday, February 29, 2024

11:45 – 1:30 PM

Attendees:

CCIT Faculty- John Long, Chrissy Riseberg, Nathan Heinze, Vera Goodacre, Mike Gordon, Dana McPherson, Dawn Ellis, James Vernon

Industry Representatives: Chris Paul, Keith Archibald, Joseph Benavides, John Goodfellow, Patrick Horton, John Just

Agenda

- Welcome new Advisory Committee Members
- Internship update
- Mentorship program update
- Programmatic changes
- Student club events
- Workforce update

Welcome new Advisory Committee members

The following new members were welcomed

- Robert Calabrisi – Veteran’s Affairs
- Rosario Simonini – VasoTechnologies
- Trace Woodbury – RidgelT

Internship update

Joe shared the internship numbers are improving. A year ago we had approximately 100 students who did not have internships. This spring we are down to 54 students. Still a long way to go.

A Capstone Experience course has been created and added for both Data Science and CIT students as we will have high school students in spring 2025 who will need internship to graduate from STEM Collegiate High School in both Data Science and CIT programs.

Mentorship program update

- Spring 2024 cohort began Feb. 8, 2024
 - 10 Mentors, 22 Mentees
 - 3rd official co-hort under Dean Kemp
- Lessons Learned:
 - Engage only with students about to graduate.
 - Instill in students their role in making the relationship work.
 - Lay out solid ground rules as part of initiating the relationship. Be firm but be empathetic. This is new for the Mentee.
- There will always be mentees who don't take the program seriously. As a mentor, don't get offended.
- ** Any Advisory Committee members interested in the next co-hort, please contact Dean Kemp. I also urge former Mentors to give it another try.

Programmatic changes

New Cloud Technologies AS degree has been added starting Fall 2024

Cloud Computing Technology AS Degree

- **Describe Cloud Computing Architectures**
- **Describe Cloud Compliance and Governance Requirements**
- **Create Strategies for Disaster Recovery and Business Continuity Planning**
- **Implement Cloud Security Practices**

- Design Virtual Networks
- Create a Plan for a Cloud Migration

New Program Learning outcomes have been created based on the Summer Retreat

- **Computer Information Technology (CIT-AS)**
 - ethically apply, implement, and evaluate a range of computer technologies, systems, and programs.
 - demonstrate proficiency in developing effective support platforms that span an entire organization, encompassing computer systems, networks, and software applications.
 - apply their theoretical knowledge in a professional setting, developing practical skills and problem-solving abilities.
 - By the end of the program, graduates emerge not only with a solid academic foundation but also with the practical experience and ethical mindset required to excel in the dynamic field of Computer Information Technology.
- **Network Technologies (COMPNET-AS)**
 - design and manage networks proficiently.
 - install, configure, secure, and troubleshoot a variety of network devices, protocols, and services.
 - expertise in identifying network security threats and implementing effective strategies to mitigate these threats within diverse network environments.
 - apply their theoretical knowledge to actual networking scenarios, gaining valuable insights into the industry.
 - It prepares graduates to seamlessly transition into the workforce, ready to contribute to the design, management, and security of networks in various professional settings.

- **Computer Programming and Analysis (CWPA-AS)**
 - ability to analyze technical problems and design and develop applications tailored to customer requirements using multiple programming languages.
 - evaluating software problems, devising effective plans, and implementing solutions that adhere to industry standards.
 - deep understanding of various programming languages, software development methodologies, and problem-solving techniques.
 - apply their programming and analytical skills in a professional setting, working on actual projects under the guidance of experienced mentors.
 - Through this hands-on experience, graduates not only solidify their technical capabilities but also gain valuable insights into industry practices, preparing them for successful and impactful careers in computer programming and analysis
- **Data Science (DATSCI-AS)**
 - apply data science concepts and analytical methods effectively in real-world contexts, providing solutions to complex problems.
 - demonstrate proficiency not only in the technical aspects of data science but also in
 - applying ethical standards to ensure responsible and secure handling of data.
 - application of theoretical knowledge in a professional setting, allowing graduates to gain practical experience and refine their skills, preparing them for success in the dynamic and evolving field of data science.
- **Web Development (WEBSDM-AS)**

- demonstrate the ability to develop web-based systems by seamlessly incorporating design and functionality specifications to meet diverse business requirements.
- creating responsive, secure, and accessible websites, leveraging current development technologies and languages
- application of their skills in contribute to live projects, gaining invaluable insights into the demands and expectations of the industry.
- preparing graduates for success in the ever-evolving landscape of digital technology.

Student club events

Deep dive on VPN & Breakfast with Cisco's Jim Risler on 9/22/23 @ EpiCenter

Our friend Jim Risler from Cisco presented over Chick-Fil-A breakfast provided by the SGA of Tarpon Springs, all about how VPN works, use cases, as well as the pro's and con's.

National Cyber League Fall Season – Funded by the Perkins V Grant for A.S. and certificate students (and Workforce Programs for B.A.S. students), each challenge in this CTF is mapped to CompTIA Security+ certification. Competitions take place over several days online, making it an accessible way for our club members who don't live in Pinellas County to get hands-on. The events include gymnasium practice, a practice game, required individual game, and an optional team-based game. Online Scouting Reports are provided after the games that help students understand their performance and can be used in conversation with employers. It's a great place to begin with hands-on challenges. Students will participate in spring as well; recruitment is going on now.

Car Penetration Testing Workshop led by Laura Malave was held on 10/4/23 @ Epi Center with several TitanSec members in attendance. Pizza and wings were provided by the SGA of Tarpon Springs, and equipment was provided by the Titan Achievement Grant. Students learned the basics of automotive cybersecurity, and how to apply ethical hacking skills to test a simulated automobile's Controller Area

Network (CAN bus) for security vulnerabilities on a Kali Linux virtual machine.
(Additional hands-on workshops will be offered.)



Raymond James CTF- 10/7/23

TitanSec was led by Team Captain, Phil Zangara, with team members Cody Sullivan, Ricardo Clervil, and Victorita Romanov.

Hosted by Raymond James Financial in Carillon using WARLOCKGAM3Z platform, this year's theme, "Generative AI: Transforming cyber defenders of tomorrow" encouraged the use of tools like ChatGPT to solve challenges. TitanSec outranked the FBI and was tied with a few other schools during parts of the competition!



Cyber X Tampa - 10/24/23 – Recent Graduate Tyler Brescia was featured on a panel at this event in Tampa all about getting started in the industry, we canceled our regularly scheduled Zoom Meet-up and encouraged students to head to the event in support of him



1st Annual Florida College System (FCS) Cybersecurity Competition - 11/4/23

Titansec-SPC was led by Team Captain, Phil Zangara, with team members Brad Skinner, David Pagano, and Tyler Brescia.

Hosted by GBSI using CyberRanges platform, 19 teams from some of Florida's 28 state colleges competed in a 3-hour competition, focused on a phishing attack. Titansec-SPC was ranked first for a portion of the event and earned a third-place finish. The Seminole Campus hosted our team in person, but the competition took place online.



SECCDC Qualifier Competition 2/10/24 @ Seminole Campus –

TitanSec was led by Team Captain, Phil Zangara, and Coach Jeff Handy with team members Ivan Karoum Mbaigoto, James Loughlin, Kelis Richard, Elvis Sanchez, and Brad Skinner.

A hard-fought fight for our 6-member team. Red & Blue Team CTF manuals were funded by CCIT, and lunch from Jersey Mikes Subs was provided by SGA of Tarpon Springs. This year's TitanSec team did not advance to the SECCDC Regionals. Of the 37 teams, they ended somewhere in the middle. CCDC competitions ask teams to assume administrative and protective duties for an existing "commercial" network – typically a small company with 50+ users, 7 to 10 servers, and common Internet services such as a web server, mail server, and e-commerce site. Each team begins the competition with an identical set of hardware and software and is scored on their ability to detect and respond to outside threats, maintain availability of existing services such as mail servers and web servers, respond to business requests such as the addition or removal of additional services, and balance security needs against business needs.

Questions – please reach Julia Meyer at TitanSec@spcollege.edu.

Workforce update

non-credit spring term technology programs are doing well. We have more than a 100% increase from previous years. Thank you for your continued support! Julie

Course ID	Course Title	Enrollment Count
CMP0101	Basic Computer Skills & Digital Literacy Online	6
CMP0810	Microsoft Office Core Productivity Online Full Suite	3
HDW0800	CompTIA A+ Combined Certification - Blended	14
HDW0802	CompTIA Network+ Certification- Blended	11
HDW0804	CompTIA Security+	33
NWT0811	Amazon AWS Certified Cloud Practitioner Certification Online	12
NWT0816	Amazon AWS Solutions Architect Associate Certification Online	5
NWT0818	Amazon AWS Certified Developer Associate Certification Online	3
NWT0820	Amazon AWS Certified SysOps Administrator Associate Certification Online	3
UAS0101	UAS/Drones Remote Pilot Certification	13
UAS0102	UAS/Drones Flight Training	26
UAS0105	UAS Safety Level 1 Certification (USI) Online	2
Total		131