

Information Technology Cluster PLC Meeting

January 3, 2023

5:00-6:00 pm Virtual Meeting

Join Zoom Meeting   
<https://ccsnh.zoom.us/j/3256889866>

**Agenda**

**Attendees**: Deb Minassian, Norm Mesa, Carl Anderson, Nick Stolos, Sean Kenney

***Introductions:***

CTE PLC Github portal is now open and available:

<https://github.com/debminassian/CTE-IT-Career-Cluster.git>

*Dan Mack and Norm Mesa have been added as Collaborators. Norm – Please accept your invitation.*

***New Members:*** *If you know of any new CS/IT teachers that you think would benefit from this group, please forward their names to Deb Minassian (*[*d.minassian@sau11.org*](mailto:d.minassian@sau11.org)*) to be added to the list.*

***What’s happening CS:***

*UNH IOL Lab – Virtual Information Session – January 19th- 4:00-5:00 pm*

*Link to sign-up:* [*virtual info session*](https://nam11.safelinks.protection.outlook.com/?url=https%3A%2F%2Funh.zoom.us%2Fmeeting%2Fregister%2FtJEqdu6hqDMqGdOYzsZ9MiSHrDF62uG5ndmL&data=05%7C01%7Cd.minassian%40dover.k12.nh.us%7C48c0f8a10b0a473ba47408dad2e5f905%7Cbe1baf9c41904dcb8eb15ffa7262c564%7C0%7C0%7C638054183914774601%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=COQfhbg9J7BeCLYHTXnPcqrF%2F6cUmStTHhrUcsEfOqg%3D&reserved=0)

Student application Link is now LIVE: <https://www.iol.unh.edu/stem/hightech-bound/apply>

***Last Month’s Topics/Updated:***

***Cyber Patriot*** *–.* [*https://www.uscyberpatriot.org/*](https://www.uscyberpatriot.org/)

*Deb Minassian has been coaching/mentoring a team since 2017. Reach out for more information about starting a team:* [*d.minassian@sau11.org*](mailto:d.minassian@sau11.org)*.*

*Cyber Patriot has opened up the application processes for anyone interested in running a Cyber Patriot Camp this Summer.* [Host a Camp (uscyberpatriot.org)](https://www.uscyberpatriot.org/afa-cybercamps/host-a-camp)

*\*Anyone interested in co-hosting a middle school or high school team?*

***Web site*** *– Nick is working on a game server and is having difficulty with the school’s firewall/internet access. Norm made a suggestion to consider an intra-net. Hosting a web server in the classroom. Students can access the web server, play games and have the dual role of storage and access to course materials. One way you can work around the firewall/filtering issues.*

*Sean mentioned that he has configured a DHCP router off the school’s BYOD network.*

*Update: Nick was looking for suggestions to obtain a server. Cost is a factor as it has not been budgeted. Norm suggested that he take an older computer and convert it. The IT department had some old servers at Nick’s school. This may be an opportunity to make use of equipment that might be retired from the school network.*

***IT Essentials*** *– ITE v8 is now available on the NetAcad.com website.*

***Cyber Start*** *– another learning resource for learning Cyber Security. The link to the site is:* [*https://cyberstart.com/*](https://cyberstart.com/)*. Cyber Start offers cyber security training using real-world hacking challenges and puzzles. There is a “free” version and a paid version that is $99 Euro (about $104 USD).*

***DOE Program Evaluation -*** *Mack shared that he had a meeting with the DOE for a program evaluation. The DOE is looking for compliance, and recommended certifications/achievements for Programming.*

***Norm*** *– Programming Certification through Precision Testing*

*Contact – Precision Exams:* Jeffry W. Beard, Ed.D

Deputy State Director for Career and Technical Education

(603)271-3729

[https://www.youscience.com/certifications/career-clusters/](https://nam11.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.youscience.com%2Fcertifications%2Fcareer-clusters%2F&data=05%7C01%7Cd.minassian%40dover.k12.nh.us%7C1fc779c18a534a0c74c308dad9336515%7Cbe1baf9c41904dcb8eb15ffa7262c564%7C0%7C0%7C638061112323067325%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=23cIu0qtkNXd%2FwRDkwiOvU3u7kfeMsvQEQ%2FcKTxMj5s%3D&reserved=0)

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*Cisco NetAcad.com - Programming courses are available and provide students certificates of completion. Access information at:*

[*www.netacad.com*](http://www.netacad.com)

*The following courses are available through Cisco’s Network Academy:*

[PCAP: Programming Essentials in Python](https://www.netacad.com/portal/resources/course-resources/programming-python/)

[Python Essentials 1](https://www.netacad.com/portal/news/i/python-essentials-1-on-skills-for-all)

[JavaScript Essentials 1 (JSE)](https://www.netacad.com/portal/resources/course-resources/javascript-essentials)

[CLA: Programming Essentials in C](https://www.netacad.com/portal/resources/course-resources/programming-essentials-in-c/)

[CPA: Programming Essentials in C++](https://www.netacad.com/portal/resources/course-resources/programming-essentials-in-c-plus-plus/)

[CLP: Advanced Programming in C](https://www.netacad.com/portal/resources/course-resources/programming-essentials-in-c/)

[CPP: Advanced Programming in C++](https://www.netacad.com/portal/resources/course-resources/programming-essentials-in-c-plus-plus/)

***How do we keep students engaged learning topics in CS?***

Norm shared: [https://learn.parallax.com/tutorials/series/cybersecurity-tutorial-series](https://nam11.safelinks.protection.outlook.com/?url=https%3A%2F%2Flearn.parallax.com%2Ftutorials%2Fseries%2Fcybersecurity-tutorial-series&data=05%7C01%7Cd.minassian%40dover.k12.nh.us%7Ca921f6d8998a4c95e9a108daed879286%7Cbe1baf9c41904dcb8eb15ffa7262c564%7C0%7C0%7C638083463793345757%7CUnknown%7CTWFpbGZsb3d8eyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=2z6LH9vzC0un%2FY859I6epOU%2FI1heA9%2BAfIrpRlcpVqQ%3D&reserved=0)

Norm has used the 5 main lessons and reports that they were great.  The last 2 were pretty nice.  You use 2 micro:bit with one attaching the other.  The receiver is a bank vault and the sender is a hacker running a brute force attack program.  I figured out a way of doing it without the Internet using Thonny.

*Parallax offers some great, fun options. If you write a letter to the CEO, letting them know how you will use their products, they will send you a box of “goodies” to try.*

***New Topics:***

***What are your schools doing for this year’s PD/PLC Work?***

***Dover****: New Course Mappings using a UBD Curriculum Planning template*

***SST*** *– Portrait of an Educator – Window 1 – Developed a Unit on Programming Micro Controllers, Window 2 – Cyber Security, Window 3 – Computer History*

*Based on Goals: Mindset, is one example. Each “Window” is observed by a peer, parent, or anyone that the teacher chooses.*

***Spaulding*** *– Learning Walk – Review the draft of a portrait of a graduate.*

***Littleton –*** *Carl shared that they are reflecting**about how cultural thinking affects curriculum.*

***Hudson*** *– Nick is part time and exempt from PD activities.*

***Credentialing:***

*NH DOE Lists IT Credentials only, it does not list any certifications for CIS. The list is redundant when it comes to Cisco certifications and is missing programming, linux and other certifications and course completion.*

A+ Certification

Cisco Certification

IT Essentials Comp TIA A+

CCNA Certification

NET+ Certification

Microsoft Certified Professional (MCP)

IC3 Internet computer Core

***New Topics for Future Meetings:***

*Norm – Info dump – Wants to share his work – Decoded the Message sent out in space… Norm would like to share his work to pass it on to someone.*

*Sean - Computer Networking and How Far do you go with the topics.*

*Nick – Curriculum – Extra-Curricula Activities - Networking, Security,*

*AP CSP next meeting*

*Deb suggested that we create segments for these topics Sean joins the meeting at 5:30. Topics that he is interested can be saved for the second half of the meeting.*

*● Next Meeting Date: February 7, 2023*

*● Adjourn Meeting:*