

MHCC CYBERSECURITY ADVISORY COUNCIL

AC Meeting minutes Meeting minutes

Date: May 12, 2023

Attendees: Everyone!

Time: 9:00 am

I. Welcome

Welcome and Introductions (Dr. Machuca)

II. Since Last Time

Updates on the BAS Degree (Dr. Lima)

Update on CAE (Sperley)

Update on Grants (Dr. Lima / Dr. Machuca)

-- SCC

-- S-STEM

-- Certificate Scholarship (McNeal, Kawasaki)

-- Legislative Activities

III. BAS New Curriculum

- New classes proposed (Access and Identity Management, Cyberwarfare)

IV. New Grant Opportunity

- Department of Labor (US)
- The Big ASK letter
(Special District Association of Oregon; Association of Oregon Cities)

V. Good of the Order

MHCC and Participating Industry Partners

CorVel Corporation	NW Natural (OR)
EnergySec	Palo Alto Networks
ISACA Portland	Port of Portland (OR)
Mike Drew (consultant)	Software Diligence

Welcome & Introductions

Dr. Machuca did a brief welcome, noting that we have been having these cybersecurity advisory council meetings since 2011 or 2012. We then did our traditional brief intro session for the participants.

Since the Last Time

- *Bachelor of Applied Science (BAS) Degree update*
We have incorporated several of your course recommendations based on feedback provided. Originally part of the reason why BAS Degrees were approved was to focus on Nursing. However, they found out that a BAS in Nursing would not be accepted by accreditation. We recently found out that the BS in Nursing can now be offered at the community college level. Our next step is to build the curriculum for our new BAS courses in preparation for a September 2024 start. Our goal is (15) students for the first cohort.
- *Update on CAE Redesignation*
We are currently working on the Program of Study for our Center of Academic Excellence in Cybersecurity (CAE-C) designation through CISA/NSA. For this designation the AAS in Cybersecurity: Networking and Security Operations degree was selected.
 - Thank you for your assistance with letters of support for our BAS Degree. We were able to use the letters written for the BAS to assist us with an application for our SCC grant as well.
 - Cyber Day (a few months ago) had almost (200) high school students show up. This was so exciting and we appreciated their interest in our programs. We are also preparing to host the NW Cyber Camp this July where high school students can attend a week-long training camp.

- Our Future Ready Oregon grant – mapping out career pathways in the State of Oregon – went to help support the NW Cyber Camp so there were no fees for students. Faculty were paid for their time.
- The S-STEM grant – ran into a jam when we had nobody apply for the scholarship. In the last iteration (last fall) we had two apply. One person was not a US citizen and was ineligible, and the other made too much money to be eligible. We advertised heavily during Cyber Day. At the end of March we had (33) applicants with (12) scholars.
- Certification scholarship update – we gave out our first vouchers during spring 2022. The goal is to have enough money in the scholarship funds that we can support students being able to take up to (4) certifications during their AAS degree. We have awarded (36) vouchers so far. Of the (36) students, (20) have already taken their certification exam. (12) students passed their first attempt. We have about a 60% pass rate which is in-line with CompTIA certifications offered through PearsonVUE Higher Education (testing).
- Oregon state politics is difficult. We have a bill in front of the legislature – HB 2049 – sitting at the Joint Ways and Means Committee. The Oregon Senate is currently not functional due to not enough representatives being present. Funding for the certificate scholarship programs – such as the first here at MHCC – is included as part of HB 2049 with the hope of expanding to (5) other Oregon community colleges. We are hopeful that it can be passed and become law.

Bachelor of Applied Science (BAS) New Curriculum

We have reduced (4) cyber competition courses to (2) courses. We have reduced (2) courses for Artificial Intelligence and Machine Learning to (1) course. With these courses removed; we are proposing a new Access and Identity Management (AIM) course and Cyberwarfare. I think with Cyberwarfare you can line it up to critical infrastructure efforts from the White House and our partnerships with the FBI and CISA. They should be building this collective collaboration space. The FBI Cyber Division is looking into changing their focus to be more supportive of private-public partnerships. Building those collaborations will help respond more efficiently and assist others that are in that space. Really we are in a defense position. There are currently areas that are in an offense position though. If the Army National Guard Cyber Protect Team has an exercise, it's important to let others know who may be able to provide support.

CISA and FBI structure their programs around incident response. It is a very critical component of having a good cybersecurity posture.

New Grant Opportunity

We are currently looking into a new federal grant opportunity, but it appears that we may not be eligible. We thought that the DOL grant we were evaluating could be used to assist us with some of our statewide goals, however the grant changed criteria which no longer allowed us to use this.

Good of the Order

Dr. Machuca thanked all of the participants and cleared.

BAS New Course Development Proposal and Assignment

Proposal Course Num	Recommended Course Num		CU	ILC	Prob Schedule A	Prob Schedule B	
x00 - Fundamentals							
ISTM328	ISTM300	Issues in Cyber Security	4	4 Lec	A	B	
x10 - Strategies							
ISTM326	ISTM310	Cyber Defense Strategies (Blue Team)	3	1 Lec/ 2 Lec-Lab	A		
ISTM439	ISTM315	Cyber Offense Strategies (Red Team)	3	1 Lec/ 2 Lec-Lab		B	
x20 - Topics							
ISTM383F	ISTM320	Incident Response and Digital Forensics	4	2 Lec / 2 Lec-Lab	A		
ISTM334	ISTM321	Mobile Forensics	4	2 Lec / 2 Lec-Lab		B	
ISTM338	ISTM322	Critical Infrastructure	4	2 Lec / 2 Lec-Lab		B	
CS363	ISTM323	Computer Architecture for CyberSec	4	4 Lec	A		Replace with Build an SOC class
NEW	ISTM32x	Cyberwarfare	4	2 Lec / 2 Lec-Lab	A/B		
x30 - Management							
ISTM335	ISTM330	Compliance	4	4 Lec		B	
ISTM440	ISTM331	Risk Analysis	4	4 Lec	A		
ISTM441	ISTM332	Project Management	4	4 Lec		B	
NEW	ISTM404?	Access and Identity Management	4	2 Lec / 2 Lec-Lab			If it is a 400-level, has to have a 300 prereq
x40 - Languages and Programming							
ISTM336	ISTM340	Machine Learning and Artificial Intelligence I	4	2 Lec / 2 Lec-Lab	A		Convert to a survey class?
ISTM437	ISTM440	Machine Learning and Artificial Intelligence II	4	2 Lec / 2 Lec-Lab	A		Replace
CS361	ISTM345	Assembly Language for ...	4	3 Lec / 1 Lec-Lab	A		
CS362	ISTM346	Secure Programming	4	3 Lec / 1 Lec-Lab	A		
x80 - Competitions and Intercollegiate							
ISTM329	ISTM380	Cyber Comp I	2	2 Lec-Lab	A		
ISTM330	ISTM381	Cyber Comp II	2	2 Lec-Lab	A		
ISTM431	ISTM480	Cyber Comp III	2	2 Lec-Lab		B	Replace
ISTM432	ISTM481	Cyber Comp IV	2	2 Lec-Lab		B	Replace
x90 - Projects							

BAS New Course Development Proposal and Assignment

Proposal Course Num	Recommended Course Num		CU	ILC	Prob Schedule A	Prob Schedule B
ISTM442	ISTM490	Senior Project	3	1 Lec/ 2 Lec-Lab		B
				Load	39	30
				Business		7
				GenEd		11
				Likely Total	39	48