Meeting Name:	**Moorhead Advisory Committee Meeting**	Date:	October 23, 2023
Facilitator:	James Anderson, Tim Preuss	Time:	6:30 – 8:00 PM
Recorder:	Tim Preuss	Location:	In Person and Zoom Meeting
Members	James Anderson, Bruce Curtis, Deb Flaskerud, Charlie Francis, Andy Haugen, Carl Lippincott, Jason Peterson, Mo Sam, Ben Svobodny, Marsha Weber, Jack Wenglewick		
Purpose Statement	Industry provide input and recommendations for IT program updates and future direction		

No.	Topic	Highlights
	Meeting Called to order	Motion to call meeting
1.	Welcome Members	James and Tim welcomed all members

2.	Discussion of Industry Trends	Discussion
		• James
		    ○ Cloud Mandates from executives
		    ○ Dealing with migrations
		    ○ Software as a Service in use
		    ○ Using Docker
		    ○ Students should know about using API
		    ○ Students should know about cloud billing
		• Ben
		    ○ Cloud first mentality
		    ○ Deal with Identity
		    ○ Communications between 4 or 5 systems
		    ○ Normalize data

		○ Microsegmentation - Jack ○ On premises Hyper-V servers ○ Vendors providing from the cloud ○ Do very little with hardware ○ Students need to understand coding - Carl ○ Students need to know load balancing ○ Students need to know Kerberos - Mo ○ Area needs Azure experts ○ Area needs DevOps - Charlie ○ Hardware is done as warranty repair, set away ○ Using Sharepoint ○ Using OneDrive - Andy ○ Azure Classroom, unsure how it relates to Azure Dev Tools for Teaching
	College Updates	Discussion - The need for new faculty to replace retired and retiring faculty - College is planning an advisory board event at the end of March 2024, more details later
4.	Computer Programming Discussion	Discussion - Charlie ○ Hired a degreed Cybersecuirty person with a "Hollywood Mindset" ○ CS0 would help orientate practitioners. - Jack ○ Computational thinking is a different mindset - James ○ Would this be a student filtering class? ○ Jason – No, this would be teaching computational thinking - Charlie ○ So teaching If-then-else operation before learing coding. ○ Jason - yes - Carl

		○ Suggested using a breadboard with simple electronics
		• Bruce
		    ○ Noted the idea of CS0 is not new
		    ○ Flowcharting used to illustrate concepts
		    ○ Jason – our hope this helps with high drop out rate
		• James
		    ○ This would be good for 2nd career individuals with little knowledge about the field
		• Group
		    ○ The group supports the implementation of the CS0, CS1 and CS2 prep course types at M State.

5.	Information Technology Database Administration Discussion	Discussion
		• Ben
		    ○ Is PowerBI taught
		    ○ Jason – teaching R
		    ○ Recommend adding DevOps
		• Deb
		    ○ Should we combine programs?
		• Jack
		    ○ Prefer separate programs, but change name for IT-Database
		    ○ Consider a name including security and/or big data
		• Deb
		    ○ Core Cybersecurity with IT Database, but separate programs
		    ○ Group agrees
		• Carl
		    ○ Add cloud to database security
		• Andy
		    ○ Deal with Mongo and DB2
		• Jack
		    ○ Dealing with Oracle and Oracle base products
		• Andy
		    ○ Learn about the end goal (data going in and out)
		    ○ Learn to manage an eco system
		    ○ Categorize data
		• Carl
		    ○ Colorado has data privacy laws

		• Jack
		    ○ MN following CA regulations for data
		    ○ More SQL specific content
		    ○ SQL concepts transferrable between vendor's SQL systems
		• Jason
		    ○ Group prefers separate Cybersecurity and Database programs

6.	Cybersecurity Program Discussion	Discussion
		• James
		    ○ Support adding CS0 and Database Management to program
		• Bruce
		    ○ Keep Identity management and basic DNS operations
		• Group
		    ○ Support James' thought

7.	Information Technology – AS Discussion	Discussion
		• Jack
		    ○ Support CS0 instead of Access in IT – AS program
		• Ben
		    ○ Students need to be ready for a job
		• Carl
		    ○ Support Network + class

8.	Cisco Certificate	Discussion • Group ○ The group supports discontinuing the Cisco Certificate
9.	Program Needs	Discussion • Are Internships still needed? – yes • Occasionally recruiters need entry level • Check out Border States and NDSU career fairs • Ask the group to consider a Computer Science – AS at M State
10	Next Meeting: Early February	

Note: To-Do Items listed in Bold

- Create M State CS0 type course
- Begin process of including CS0 in programs

- Remove Network Operating Systems from Cybersecurity-AAS
- Add CS0 course and Database Administration courses to Cybersecurity-AAS
- Retire the Cisco Certificate program