



IT and Programming Advisory Council Meeting Notes
DON 122, 5:30-7:00 p.m.
3.7.2023

Community Advisory Board Members

- Steven Zimmerman , Figure Technologies –In Attendance
- Mike Murray, State of Montana – Dept. of Administration – In Attendance
- Bob Finstad, State of Montana, Dept. of Revenue
- Joel Norris, State of Montana, Dept. of Corrections
- Kevin Sandoval, Helena Indian Alliance
- Shaun Scott, Carroll College Faculty
- Luke Muszkiewicz, Pinion
- James Bell, Mphasis

Helena College Advisory Board Members

- Bill Hallinan, Computer Science Instructor –In Attendance
- Bryon Steinwand, Information Technology and Programming Instructor–In Attendance
- Robyn Kiesling, Executive Director of General Education and Transfer–In Attendance
- Mel Ewing, Chief Information Officer –In Attendance

Helena College Attendees

- Sandra Baumen, Dean/CEO–In Attendance
- Lewis Jackson, Assistant Director of K-12 Partnerships–In Attendance
- Melissa Mousel, Administrative Assistant–In Attendance

Update on new DevOps AAS progress.

- Starting in Academic Year 2023-2024
- Will be the only DEV Ops program in the state. It is a more modern network admin approach .
- Still working on specifics of the Directory Services and Identity class. The goals for the class are to have students comfortable with using directories. Examples: Common law organizations, identity, and directory services.

Board Member Comments:

- Cloud base is stateless
- It was noted by our board members that graduates need to have basic concepts and know enough to be able to research sources to get comfortable/ fluent in programs.
- Ability to communicate, brainstorming and working with a team is a must as well.
- Dev ops to use cooper net-- clusters, pods,
- Experience with source code, containerization scrips–Get Hub you can host a page.
- Not focusing on one particular platform

Frameworks in use:

- State: java, net, react, cos products, middle, APIs, Ap Engine
- Private: Cotlon (successor to Java) has more powers than Java /Best practice use for Android; React, open API- plug in framework (Swagger) easy to implement , Powershell instead of Java
- Databases: Post gress (don't have to pay for licenses) – not Oracle, key value, document store, SQL

What certification to recommend: Not Recommended for DevOps

Update on new IT Help Desk CAS progress.

Board Member Comments:

Feedback on curriculum.

- Possibly put Directory Services in here

What certification to recommend?

- Code –Coding camps, etc.
- Configuration management (state) (service Now –Angular JS, java script and apis-latency and verbs, low code, no code, Pega
- Grant Class

- React (coding bootcamp) etc. Google, Meta, Docor
- Get students used to using MACS
- White board test is best - fluid and logic–pick your favorite code , ask questions, can you function in a team, make mistakes, research and identify problem -Work a problem. Problem solving skill are highly valued

Update and feedback on Associate of Science

- Computer Science Transfer Pathway for MSU, MT Tech, and UM.
- Ideas on how to market.

Update and feedback on existing Software Development AAS degree option.

- No significant changes this year for this option.

Service Now training or class ideas.

- Service Now appears to have an Academic Partner program, however they do not respond to inquiries about it. There are some grant funds available for training for High School student where the training results in industry recognized credential. We would like to put something together.
- We are looking for collaboration opportunities. This could be service-learning projects or other ideas that enhance student learning and job preparedness.
- Any other trends we should be aware of or content that we do not cover that we should? (Functional programming?)

Conlin, Java, integration patterns, kaffk, Rev Q , C based languages, Oracle functions indexes

- Anything we are covering that we should stop or reduce scope of coverage.
.net framework, less SQL