Information Technology Advisory Meeting

Spring 2018 Agenda Version

February 23, 2018 @ 1:00 pm

MSCTC Moorhead B150

**Agenda for spring 2018**

* MSCTC/M State welcome and updates
  + Communications Check (Audio and Video)
  + Additions/approval of agenda
    - *M State is requesting more input from advisory committees. What topics would the members wish to discuss?*
  + Approval of last meeting minutes
  + Introductions and membership list updates
    - *Note: MState recommends a sign in sheet. Please bring or send a business card so we may populate the sign in sheet, thank you.*
  + *College update – Carrie Ward*
    - *Chancellor update*
    - *MState President update*
  + *Workforce Development Center offer*
    - *Amy Hochgraber – workforce center*
* Chair/Vice Chair discussion/elections
  + *Note: MState recommends each committee have a Chair and a Vice Chair. Currently, this committee only has a Chair.*
  + *Work with James on Vice Chair*
* Program Updates/Changes since last meeting
  + Computer Programming – AAS
    - <http://brazil.minnesota.edu/curr/CP_AAS_2017.pdf>
    - This is a review of the current curriculum.
  + Information Technology Database Administration – AAS
    - <http://brazil.minnesota.edu/curr/IT_database_fall2017.pdf>
    - This is a review of the newly adopted curriculum.
  + Network Administration & Security – AAS
    - <http://brazil.minnesota.edu/curr/nat_aas_fall2017.pdf>
    - Minnesota is beginning work on a statewide pathway for security education. The plan is associate degrees easily leading to bachelor degrees easily leading to master degrees.
  + Information Technology – AS
    - <http://brazil.minnesota.edu/curr/IT_AS_fall2017.pdf>
    - Articulation agreement update
  + Network Security – Certificate
    - <http://brazil.minnesota.edu/curr/netsec_certificate_fall2015.pdf>
    - At some point, the Minnesota security pathway may include certificate programs leading to associate degree programs.
  + Cisco Certificate
    - <http://brazil.minnesota.edu/curr/cisco_fall2012.pdf>
  + The following are curriculum standards used in curriculum design.
    - <http://ccecc.acm.org/files/publications/ACMITCompetencyModel14October201420150114T180322.pdf>
    - <http://ccecc.acm.org/guidance/software-engineering/objectives/>
* Discussion of Student and Program Graduate Performance
* Enrollment (Fall 2017):
  + Cisco Certificate: 6
  + Computer Programming: 35 online, 63 Moorhead
  + IT-DBA: 1
  + IT-AS: 55
  + NAS: 33
  + Sec. Cert: 2
* Retention (3 yr combined data): Fall to Spring, Fall to Fall
  + Programming Online: 59%, 50%
  + Programming Moorhead: 53%, 40%
  + IT-AS: 67%, 64%
  + NAS: 68%, 65%
  + For the remaining programs, there is too little information for retention rates.
  + Placement Rates
  + Advisory Committee Survey Results
* Discussion of Industry Trends
  + What is the group’s current perspective on entry-level jobs in the field?
  + What technology/concepts must students master before graduation?
  + What technology/concepts should students master before graduation?
  + What technology/concepts are no longer necessary for student mastery before graduation?
  + What advice does the group have for IT area entry-level job seekers?
    - Telementry, rs-232, smart cities, data conversions, access to history of aquire company, top 2 critcal controls, multifactor authentication, powershell, bash scripting, serverless, customer service, final job hunting class, telephone, ethics,
    - **Review speech class – To Do**
    - **Customer service – marketing**
    - **Ethics –**
    - **Writing**
    - Devops and agile
    - Software Defined Networks, Cisco DNA,
    - Process of Continuous learning
    - Software defined wan
    - North/south – east/west data flow
    - Coexist with mpls
    - Weigh the mntc and customer server
    - Check with HR
    - Slack channels
    - Talk to someone at a conference, report what you say
    - Projects
    - Revamping internships
* Course and Program Plan Review
  + Note: MState recommends advisory committee setup a rotating schedule for reviewing course and program plans.
* Program Outcome Review
  + Note: MState recommends advisory committee setup a rotating schedule for reviewing program outcomes.
* Program Needs
  + Partnerships
  + Equipment
  + Recruitment
  + This is a call for Internships and entry-level job opportunities for M State students.
* Other
* Next Meeting Date

Actions Items

Advisory Member Functions (MSCTC Advisory Committee Guide)

* Identify specific subject areas of program inclusion
* Prioritizing the recommend subject areas
* Specifying appropriate program content level
* Reviewing program outcomes on an ongoing basis
* Assessment of program quality
* Specifying appropriate foundational skill standards for local needs
* Identifying general education and related technical skills needed by graduates
* Recommending equipment to support the program content

from Shane White (privately):

Sounds fine

from Randy Holcomb to everyone:

Randy Holcomb from US Bank here -I"m a little hearing-challenged these days, so I'll be watching.

from Kris Boland (privately):

Hello from ND

from Randy Holcomb to everyone:

I'm trying to get my Bluetooth-enabled hearing aid to steam from my cellphone.

from Kris Boland (privately):

Randy, did you go to quick start and connect to audio?

from Kris Boland (privately):

Yes, I have audio

from Kris Boland (privately):

Nodak Insurance Co. No, no talking

from Shane White (privately):

You and Tim can do it

from Shane White (privately):

hyperconvergence is what were seeing more and more like https://www.nutanix.com/

from Shane White (privately):

I have a current student that works at highplains and he says the customer service elective class gets him no credit? he told me to bring it up at the meeting.

from Shane White (privately):

https://martinfowler.com/articles/serverless.html

from Shane White (privately):

Serverless architectures refer to applications that significantly depend on third-party services (knows as Backend as a Service or "BaaS") or on custom code that's run in ephemeral containers (Function as a Service or "FaaS"), the best known vendor host of which currently is AWS Lambda. By using these ideas, and by moving much behavior to the front end, such architectures remove the need for the traditional 'always on' server system sitting behind an application. Depending on the circumstances, such systems can significantly reduce operational cost and complexity at a cost of vendor dependencies and (at the moment) immaturity of supporting services.

from Shane White to everyone:

I think hes talking about this? Serverless architectures refer to applications that significantly depend on third-party services (knows as Backend as a Service or "BaaS") or on custom code that's run in ephemeral containers (Function as a Service or "FaaS"), the best known vendor host of which currently is AWS Lambda. By using these ideas, and by moving much behavior to the front end, such architectures remove the need for the traditional 'always on' server system sitting behind an application. Depending on the circumstances, such systems can significantly reduce operational cost and complexity at a cost of vendor dependencies and (at the moment) immaturity of supporting services.

from Shane White to everyone:

I 100% agree

to Shane White (privately):

You are agreeing to ?

from Shane White (privately):

ENGL1101 out, I hated that class :)

to Shane White (privately):

Got it, thanks