

Computer Information Systems Industry Advisory Board Meeting

Attendance:

Kelly	Paul	Barbara
Larry	DeeDee	Matt
Nate	Brenda	Mark
Brian	Derek	Henry
Honda	Jason	

Faculty Reports:

No changes in curriculum in the past year

Matt - preparing an introductory data science course for spring terms, attended Maine Institute for Spatial Technology

Enrollments are down – hard to push courses at 7

More graduates than the other system schools (and other schools in Maine) in Computer fields

Low enrollment in individual concentrations

Mark having success with conversion of liberal studies, undeclared, health and human services, and business degrees

Industry Recommendations:

Tableau is huge in industry right now

SQL training is huge for data science agenda

SDLC and SQA are important (most companies do not having a role for it); need courses running in this area (tried, but low enrollment cuts)

Change marketing strategy for SQA

Matt suggested making a Video of Industry to make these types of skills urgent for students (may not listen to faculty recommendations in this)

Awareness of types of jobs: qualifications required

Associate training programs for all degrees, high acceleration of retention in companies

Checksheets for program are overbearing, but concede that the information is important to be in student's hands

App development part of industry has struggled with finding ready-made practitioners

Gap in knowledgebase with QA, OOP, common design patterns in Web Development, ORM, SQL

Project Login brought only a few employers to UMA, but not having all employers that go to other schools hurts us

Suggested programming reorganization – teach OOP over languages

Our courses currently instruct in those areas, but only 25% get it and way less than that truly understand it

Outreach to training directors

Project Login open to helping with pushing non-majors into majors by inviting them to job sessions

Work to get online students involved in events

Explore Project Login

Emphasize C# and Java in WD, PHP not as emphasized in industry

Cloud and Mobile need to be covered, different from wireless networking

Cyber

Cybersecurity is owned by UMA, despite shared status (109 students)

Full curriculum

MCSC – System Resource, not USM resource

NSF Grant with Robert Morris University in Cyber/Mobile Forensics/Security

Statewide program advisory board, steering committee at system level

Need to create a masters degree in ISS

Thomas is the competitor

2+2 articulation agreement with CMCC and SMCC

Henry has adjuncts all over US with terminal degrees (working at NSA, Valencia, HP, USDA)

Degree program stabilizing

Mini-certificate programs (5 courses)

System needs to approve NSF grants for cyber students (exchange for 2 years' service national government)

NSA Center of Excellence

Willing collaboration is the key to success in system

Industry Recommendations

Cyberlaw and Privacy need to hold a key role

GRDP awareness and its impact on this side of the pond

Cloud security

Mobile security

Focus on the physical world

Only three people advertising cyber jobs

Impressed with progress with the system

Upcoming Events/Job Outlooks

Prison opportunity with Mark – probably not going to be hired, insurance issue, background checks, not disqualified from federal hiring, leading edge area GSA-SIN, small employer possibility

Job Titles:

CGI targeting 200 employees, currently sitting at 35 (pipeline deals, hiring like crazy if flowing), likely hiring for Tableau, ETL (open right now): C# and Java, AGILE

State: IT division has 25% of employees at retiring age in next 2-3 years, organizational change, enterprise solutions, software developers, software architect, systems architect, data analysis, databases, cybersecurity copied from national HS, app dev, AGILE, business analytics, development declining, integration up

Business analysts, web developer, DBA, security analyst – apply security tools

Upcoming Events:

Project Login: March 8 - Thomas

Career Fair: March 16, 2017 3:30 – 5:30

TechNight: March 22, 2017, 3:30 – 7:30

Job Fair at NEWIC: March 31 (1-3)

New England Women In Computing: March 31/April 1

Girls Job Shadow Day: April 6, 10 – 3:30

Internships:

Two internship type students: all about internships, and what's the internship handbook

Internship project finding issues for students

Growth period for figuring out the job

Cyber internship split off from CIS

If students are looking, Matt often has research projects that students can get involved in that impact GIS and applications of data science techniques