

CASA Dean's MMU (Monday Morning Update)

Monday, February 15, 2016

Dear Colleagues,

The “flipped classroom” has been a research topic and educational practice for several years. It was a popular pedagogical approach in high schools, but more recently is spreading to college classrooms. What is a flipped classroom? What are the key features of a flipped classroom? Will a flipped classroom help improve student learning outcomes?

Traditionally we give lectures in class and ask students to do their homework after class. A flipped classroom reverses this practice: students study recorded lectures outside of class and they perform homework-like activities in class. This is where the term “flipped classroom” came from. The definition of a flipped classroom is rapidly expanding to mean any approach that requires students to prepare outside of class for active participation in class. It is a pedagogical model in which direct instruction moves from the group learning space to the individual learning space, and the resulting group space is transformed into a dynamic, interactive learning environment where the educator guides students as they apply concepts and engage creatively in the subject matter.

The online learning management systems, such as Desire to Learn (D2L), supplement traditional classroom training with web-based components and learning environments where the educational process is experienced online. Almost all professors in our college use D2L or other learning management systems to help their face-to-face classroom teaching. This approach enhances student-to-student and faculty-to-student communication, enables student-centered teaching approaches, provides 24/7 accessibility to course materials, provides just-in-time methods to assess and evaluate student progress, and reduces routine paperwork and other administrative tasks around course management. The integration of web-based learning components with D2L brings added value to traditional classrooms and helps implement a flipped classroom strategy.

In the traditional teacher-centered learning model, the teacher is the primary source of information. By contrast, the flipped classroom deliberately shifts instruction to a learner-centered approach, where in-class time is dedicated to interactive discussion and hands-on projects. This is particularly important in STEM education in general, and in many technology-intensive courses in particular. I hope to see many research papers and presentations in this area at our 2016 ASA Research Symposium.

OPEN HOUSE

Just a reminder that SIU Open House takes place today, Presidents' Day. The college fair will be from 9:30 a.m. to 11:00 a.m. in the Student Center International Lounge area. We are expecting over 200 students and their families at today's event. CASA will have our exhibits set up before 9:30 a.m. and will provide Showcase Visits for individual programs during and after lunch time. The School of ISAT plans a Showcase Visit in ASA C-103 from 12:00 noon to 12:30 p.m., and the School of Transportation has a Showcase Visit at the Transportation Education Center (TEC) at 12:30 p.m. with the group meeting in the North Lobby of the TEC building. Thank you for your participation and partnership in our recruitment events.

CONGRATULATIONS

- Dr. **Qian (Jenny) Huang**, Assistant Professor of Architecture, has two peer-reviewed papers been accepted for publication in the proceedings and oral presentation at the *16th International Conference on Computing in Civil and Building Engineering (ICCCBE)* to be held in Osaka, Japan, July 6-8, 2016. The titles of these two papers titles are listed below:
 - "Occupancy Estimation in Smart Buildings Using Audio-Processing Techniques," and
 - "Refining Wi-Fi Based Indoor Localization with Li-Fi Assisted Model Calibration in Smart Buildings."

Congratulations!

- Dr. **Andrey Soares**, Assistant Professor of Information Systems Technologies (IST), has submitted an NIH grant proposal titled "*Effects of Vocal Hygiene App Training*" collaborating with a faculty in the SIU Rehabilitation Institute. Congratulations!
- **Faith Miller**, Associate Professor and Program Director of Dental Hygiene, was a speaker last Tuesday at the African American Museum for a presentation hosted by the American Association of University Women, Carbondale Branch. She talked about getting young African Americans involved in STEM (Science, Technology, Engineering, and Mathematics) fields. Here is a nice article about her presentation: http://thesouthern.com/news/local/communities/siu-dental-hygiene-professor-speaks-at-tonight-s-aauw-event/article_79f9f488-6e9c-5484-9ee8-64fcedff13a1.html. Congratulations!

Dr. Ella Lacey (left) and Faith Miller talk after Miller's presentation. Lacey is a member of the AAUW. Photo credit: Stephanie Esters, The Southern Illinoisan.



- Please join me in congratulating the School of Information Systems and Applied Technologies (ISAT) Technical Resource Management (TRM) program for its articulation agreement with Waubensee Community College (WCC), Sugar Grove, IL. The agreement has been signed by Dr. Susan Ford, Interim Provost and Vice Chancellor for Academic Affairs for Interim Chancellor Brad Colwell. According to the agreement, all graduates of WCC with an Associate in Applied Science (AAS) degree in Auto Body Repair and meeting SIU Carbondale TRM program admission requirements will be considered for admission into our TRM program based upon the program enrollment criteria and space availability. Congratulations!
- **Christopher Garrison**, a Fire Service Management (FSM) graduate, has been named chief of the Sun Prairie Fire Department, and **Darrin Dorn**, an Aviation Management and Flight (AVMAF) graduate, has been recognized by the Airline Pilots Association's Aviation Security Award. Our sincere congratulations to both alumni! The College of Applied Sciences and Arts takes great pride in the career accomplishments of our graduates. Mention of these milestones will appear in the spring 2016 issue of *SIU Alumni*, the quarterly magazine of the Association. Congratulations!
- **Bryan McCarthy**, Junior of Information Systems Technologies (IST), **Joel Carter**, Senior of IST, and **Steven Mangano**, Senior of IST, have been selected to receive the National Security Agency Scholarship from the Southern Illinois Collegiate Cyber Co-op. This is a major accomplishment and is a testament to their hard work and dedication. This recognition is not only an honor to these students, but also to the School of Information Systems and Applied Technologies (ISAT), the College of Applied Sciences and Arts (CASA), and to SIU. Congratulations!

AD STAFF MEETING

The Administrative (AD) Staff will meet on Wednesday, February 17, 2016, 9:00am - 11:30am in the Dean's Conference Room. The tentative agenda of the meeting is below:

1. Welcome, open forum, and Dean's Update
2. GA Contracts for FY 2016-2017
3. Summer Model and Schedule Discussion
4. Briefing from Community Intervention Coordinator for SIU's Counseling and Psychological Services center (CAPS)
5. Speakers' Bureau Pros & Cons
6. Round Table Discussion and Other Business

If you have any specific items that you feel the Administrative Staff should consider at the meeting, please send me your suggestions before 1:00pm Tuesday, 2/16/2016. All faculty and staff are invited to the open forum section of the Administrative Staff meeting from 9:00am - 9:30am.

SALUKI CELEBRATION

SIU will have a *Saluki Celebration* at Ballpark Village in St. Louis on Saturday, March 5, 2016 from 11:00 a.m. - 1:00 p.m. on the second floor of Cardinal Nation. The purpose of the event is to share in our Saluki Pride, including celebrating the success of the basketball Salukis. Chancellor Colwell will be present to meet and greet along with Coach Nick Hill. This event corresponds with the MVC tournament and will be open to all, including alums, the community and prospective students. Admissions will have an assigned area within the event space to accommodate prospective students and families. There will be free food and non-alcoholic beverages provided by the Chancellor's office. We will not have a traditional "fair" set up. We will have one table assigned and there will be eating tables within the section. Representation from each college along with admissions, financial aid and housing will be available to speak with prospective students. We are planning to offer some structure to the program, which may include round table discussions with families and/or activities to match students with their college representatives.

2017-18 CATALOG & PROGRAM CHANGES

A workshop will take place regarding 2017-2018 catalog and program changes with two sessions: Session 1 is Monday, February 22, 2016 from 9:00 a.m. to 10:30 a.m. and Session 2 is Wednesday, February 24, 2016 from 1:00 p.m. - 2:30 p.m. Each session will cover the same material. This workshop is targeted to chairs, directors, and staff members responsible for submitting forms 90, 90A and 100. It will cover the proper procedures for submitting, as a complete package, the forms required for changing the undergraduate and graduate catalogs (90, 90A, 100) to ensure a smooth, efficient process. With the implementation of Degree Works coming this fall, it is important to improve and expedite important changes to courses, programs, and catalogs. The goal is to offer our current students the highest quality of programs and enhance our recruitment efforts by initiating new cutting-edge programs in a timely manner.

SPIRIT OF ST. LOUIS AIR SHOW

SIU aviation programs will participate in the *Spirit of St. Louis Air Show* this year on Saturday and Sunday, May 14 and 15, 2016. We have been a part of this air show in the past. During this air show back in 2014, Rusty Bailey, the University photographer, was able to capture a picture of SIU Aviation Alum, **Ryan Chamberlain**, as he piloted his F/A-18 Hornet past SIU Aircraft on the ramp. The image of the F/A-18 framed by the letters SIU on the tail of one of our Cessna 172's was used in promotional material for the Department (See the photo below). Additionally, through many of our volunteer pilots, we were able to participate in the *STEM Expo* held the day before the main show. This Expo saw hundreds, if not thousands, of high school age students from the St. Louis area. Some were even given introductory flights provided by SIU, as well as St. Louis University.



NIH SUMMER COURSE

NIH BRAIN Initiative provides an interdisciplinary computational neuroscience summer course for students, residents, and junior faculty from ANY discipline, including Biology, Psychology, Medicine, Engineering, Physics, and Mathematics. Expenses for the course will be fully covered by NIH. The deadline for applications for the 2016 summer course is March 1st, 2016. Additional information and application details can be found at the website: <http://engineering.missouri.edu/neuro/outreach/nih-neuroscience-course/>

CHANCELLOR'S SCHOLARSHIP WEEKEND



ON THIS WEEK'S CALENDAR

- Monday, February 15, 2016: 9:00am, SIU Open House, Student Center International Lounge.
- Tuesday, February 16, 2016: 10:00am-12:00pm, Deans' Council Meeting, Anthony Hall Balcony Conference Room.
- Wednesday, February 17, 2016: 9:00am - 12:00pm, Ad Staff Meeting, Dean's Conference Room. 12:00 noon, Governor Bruce Rauner's annual budget address to the IL General Assembly.
- Thursday, February 18, 2016: 3:00pm - 4:00pm, CASA Honors Day Committee Meeting, Dean's Conference Room.
- Friday, February 19, 2016: 12:00pm - 1:30pm, Retention Webcast, Anthony Hall Balcony Conference Room.
- Saturday, February 20, 2016, Illinois CCDC Cyber Security Competition.

AND FINALLY ...

If you see something in this update that you want to comment on, please send me an email at my SIU email awang@siu.edu or call me at 618-536-6682. Also, if you know of somebody who might be interested in receiving the CASA Dean's MMU, please ask them to send me an email and we will gladly add them to our mailing list. On the other hand, if you prefer not to receive the CASA Dean's MMU, please let me know, as well. Thank you.

Andy Ju An Wang, Ph.D.
Dean, College of Applied Sciences and Arts