

All University Committee

Thursday, May 2, 2019

3:30 p.m.

Miller Oval

Committee Members in Attendance:

Cathy Canney, Peter Staab, Alberto Cardelle, Laura Bayless, Charles Roberts, Joseph Wachtel, Matthew Badagliacca, Hailey O'Brien, Amy Wehe, Michael Nosek, Aisling O'Connor, DeMisty Bellinger-Delfeld, Sara Levine

Committee Members Absent: Alexander Ramos Jr.

Guests:

James Alicata, Abdel Mustafa, Soumitra Basu, Catherine Buell, Keith Williamson, Hong Yu, Keith Chenot

Meeting called to order at 3:30 p.m. by AUC Chair Peter Staab

I. Acceptance of Minutes:

AUC Curriculum Committee meeting: April 24, 2019

Motion: Charles Roberts Second: Matthew Badagliacca

Vote: 10/0/0

II. Approval of Minutes:

AUC Meeting: April 4, 2019

Motion: Amy Wehe Second: Charles Roberts

Vote: 10/0/0

III. Proposals to Consider

AUC #150: Addition of Pre-requisite for EXSS 2300 and EXSS 3000

Motion: Charles Roberts Second: DeMisty Bellinger-Delfeld

Vote: 11/0/0

IV. Proposals to Approve:

AUC #37 – New Course: Enterprise Resource Planning Systems

Motion: DeMisty Bellinger-Delfeld Second: Matthew Badagliacca

Sponsor: Soumitra Basu

Sponsor: This is a 3000 level course, 4 credits, and is required for the Engineering Technology: Manufacturing Engineering Technology Concentration. This is an electronics course that is part of the electronics curriculum. The prerequisites are Applied Statistics (MATH 1700) and Principles of Economics (ECON 1100).

Committee asked the sponsor to elaborate the justification of this being a 4-credit course.

Sponsor: This course has an essential relational database systems structure that are many facets to this course. We wanted to approach it to make it more general and broad as possible. We are going to supply students with the fundamentals and exposure to how database works in real life situations and how they can use it in the manufacturing environment. Some of the topics include automation, programming, and how micro controls are programed.

Committee asked if this would be considered a lab course.

Sponsor: We are not running this as a lab course but do classroom demonstrations. Might consider a lab component added in the future.

Vote: 13/0/0

AUC #38 – New Course: Microprocessor & Microcontroller Embedded Systems

Motion: DeMisty Bellinger-Delfeld Second: Laura Bayless

Sponsor: Hong Yu

Sponsor: This is a 4000 level senior course in the Engineering Technology: Electronics Engineering Technology Concentration. This course will go over microprocessors, microcontrollers, architecture, hardware configurations, and fetch and execute cycles.

Committee asked sponsor if this course is related to Computer Science.

Sponsor answered it is computer engineering. The course goes over the microprocessors, memory, interface, and assembly language programming. A lot of microprocessors and inserts put together for microcontrollers. A lot of hardware that uses the C language to process and microprocess. It is an essential course for the Electronics Engineering Technology Concentration.

Vote: 13/0/0

AUC #39 – New Course: Industrial Systems Automation

Motion: Alberto Cardelle Second: DeMisty Bellinger-Delfeld

Sponsor: Soumitra Basu

This is a 4000 level course in the Engineering Technology: Manufacturing Engineering Technology Concentration. It will be an elective course that is part of the manufacturing concentration. The idea behind this is that we used to do production planning with paper charts before computer usage in the industry; so the old way was using production systems and now big industry uses computers and uses lots of modeling and simulation. We go over scenarios and modelling simulation. These are widely used in industry now; and not just in manufacturing but in other industries as well. We created a modern course that would give students good competencies.

Committee asked sponsor to elaborate on why there are 4 prerequisites listed for the course. Seems like a lot of courses for prerequisites.

Sponsor answered two of the courses are core courses so anyone taking those core courses would have taken those prerequisites early. The Lean 6 Sigma prerequisite is in the Manufacturing Technology Concentration because it is important for students to have an understanding of the database. Also modeling and simulation requires the knowledge of statistics; we want students to have some exposure to statistics because they need statistics before taking and understanding quality systems. This will give students long term results in the industry.

This is a senior level course and it will be taken in the final semester of their fourth year.

Friendly amendments:

Item 9 and 14: Add the year they were approved and AUC proposal numbers for prerequisite courses.

Vote: 13/0/0

AUC #40 - New Course: Performance Contracting for Energy Systems

Motion: Charles Roberts Second: Joseph Wachtel

Sponsor: Keith Chenot

Sponsor: This is an upper level 4000 course. Teaches students to apply energy systems and perform energy financing services to clients and understand different market segments in businesses and utilities. Students present how these systems are performed in businesses and to home owners. They will apply their knowledge as they go to work in the fields and continue studies in their concentrations.

Committee members wanted sponsor to explain the justification of why this is a 4000 level course verses a 3000 level course. In the course syllabus, it states the course has lab work, field trips, and eye protection; if this is the case, they think it should have an extra class period time.

Sponsor answered that the "lab" is using presentations, examples, and homework assignments. We'll be working in computer labs and places where there are demonstrations. Students will be applying

knowledge, using excel to put schedules together, and use of other types of programs; so it is not the same lab per say that is typical in say a science lab course. Our presentation lab has specific instrument and equipment, that our department calls it a lab, but not a lab classroom for students. The syllabus was just an example that was brought over from another syllabus.

Committee member asked if this course would be replacing Performance Contracting 4600?

Sponsor answered yes. It has a name change, credit hours changed, and some designation changes.

Friendly amendments:

Item 9 and 14: Add the year they were approved and AUC proposal numbers for prerequisite courses.

Vote: 13/0/0

AUC #41 – New Course: Project Scheduling

Motion: Joseph Wachtel

Second: Charles Roberts

Sponsor: Abdel Mustafa

Sponsor: This is a senior level course for the Construction Management Concentration. It will teach students about management of construction projects, identifying tasks, and leading projects. It is a computer lab course that will go over software standards and industry standard software and will have lab assignments. Students will use both Primavera and Microsoft Project for the software.

Friendly Amendments:

- **Item 9 and 14:** Add the year they were approved and AUC proposal numbers for prerequisite courses.
- **Item 2:** Change the wording to match the course description in the syllabus.

Vote: 13/0/0

AUC #42 – New Course: Seminar in Architecture

Motion: Joseph Wachtel

Second: Laura Bayless

Sponsor: Keith Chenot

Sponsor: This is taken in the fourth year for the Architecture Concentration. The course goes over the practice of architecture, the responsibilities and ethics in architecture firms, and the responsibilities of life safety. Will get into office procedures and business of architecture as well as teams of people in architecture. Primarily for them to get ready for their career path.

It's concurrent with the capstone and all the tech programs do the same. The construction management concentration has their own in the same semester. This is more of the business side of it as they're doing their capstone. Take it in the same semester in other concentrations.

Friendly Amendments:

- **Item 2:** Change wording in the proposal course description to present tense.
- **Item 9 and 14:** Add the year they were approved and AUC proposal numbers for prerequisite courses.

Vote: 13/0/0

AUC #43 – New Course: Seminar in Civil and Environmental Engineering Technology

Motion: Joseph Wachtel Second: Sara Levine

Sponsor: Abdel Mustafa

Sponsor: This is a senior level and seminar course in the Engineering Technology Concentration. This course deals with the challenges in engineering technology and the advances and changes to due population increases. A lot of software will be used for design. The prerequisite for this course is Water and Wastewater Treatment.

Friendly Amendment:

- **Item 9 and 14:** Add the year they were approved and AUC proposal numbers for prerequisite courses.

Vote: 13/0/0

AUC #45: ITEC Course Designation Changes

Motion: Joseph Wachtel Second: Laura Bayless

Sponsor: Keith Chenot

Sponsor: This is for a course designation change for several existing courses. We added an additional one to the list which is the project management course, we thought we had it but didn't have it in the original. These courses are similar to our current courses and are at the same level.

There was a discussion on whether there should be another proposal submitted because of the changes in the prerequisites in #7, ITEC 3650 "Co-Generation and Waste Recovery". Some committee members stated you need a proposal to change the content in the course. Course description is the same but took out pre-practicum in #6, ITEC 1700 "Evolution and Industrial Technology".

Sponsor answered they are taught in the industrial technology courses and will be taught in the engineering technology courses.

Committee asked sponsor to elaborate why they changed the title of construction management system. Sponsor answered the construction course will be taken in the fall of the their senior year for construction students. The course has a project shell of how they organized and planned the

construction program. It is similar to the course designations and an oversight of the program. We feel it's a similar piece of the construction management course in the engineering program.

Committee asked sponsor if they would be willing to replace the word "construction" instead of just taking it out. Sponsor answered they could add the word "engineering" to substitute it. They feel that would work.

Our program would not be affected until spring next year, so we have time to deal with this in the fall. If you want to do waivers the first year, you can do that. This course is in the slot of required courses. If you can change the designation so it's both and come back and change prerequisites next year.

Friendly Amendments:

- Item 8: Course #7 should be ITEC 3650 instead of TEC 3650. And Electrical Systems and Circuits should be listed as Electrical Systems in Banner.
- Replace "construction" with "engineering" in the course title.

Motion to remove the changes to prerequisites and remove all the designation changes in item 7; and add "engineering" to item 8.

Motion: Michael Nosek Seconded: Amy Wehe

Vote: 13/0/0

Vote: 13/0/0 (Unanimously passed with friendly amendments)

AUC #44 – New Course: Seminar in Energy

Motion: Charles Roberts Second: Amy Wehe

Sponsor: James Alicata

Sponsor: This course will be taken senior year. This will be the final presentation for the students in their specific concentration. This will be a 4000 level course in the Energy Engineering Technology Concentration.

Topics will include planning and performance in procurement and construction. This will be similar to architect and business concept of it.

Friendly Amendments:

- **Item 9 and 14:** Add the year they were approved and AUC proposal numbers for prerequisite courses.
- **Item 9:** Insert ITEC designation where prerequisites are listed.
- Add language to the course justification: Copy and paste course description as the second paragraph in the course justification.

Vote: 13/0/0

AUC #46 – Amend AUC 2018 Proposals

Motion: Charles Roberts Second: Michael Nosek

Sponsor: Keith Chenot

Sponsor: We had input from our Dean Dr. Williamson. This proposal seeks to amend 2018 AUC proposals that are part of the overall program changes.

Friendly Amendment:

- Sponsor has a friendly amendment to course #39 “Estimating and Bidding”. Want to change the course credits to 3 credits for lecture and 6 credits for assignment. Should be correct in all the concentration courses.

Committee discusses how in number 35 and 39, the sponsors are making substantial changes that would usually need to go through with new AUC proposals. It was suggested that the proposal be tabled, allowing time for the department to provide supplemental material.

Move to table the discussion on AUC #46

Motion: Charles Roberts Second: DeMisty Bellinger-Delfeld

Vote: 13/0/0 (Unanimously approved to table the discussion)

V. Items from the Floor

We will be meeting next week on May 9th. Looking at May 13 to finish discussion on AUC 60 and probably 14 and 15 for regular meetings and those will be from 2:30 – 4:30 p.m. for both. Will send this out.

VI. Adjournment

Motion: Charles Roberts Second: Joseph Wachtel

Meeting adjourned at 4:44 p.m.

Vote: 9/4/0