

Institute Undergraduate Curriculum Committee

Academic Faculty Senate

Tuesday, April 19, 2016

3:00-5:00 PM

Student Center Theatre

Report, Action Items, Minutes

Presented by:

- Dr. Rhett Mayor, ME, Chair

Action Items

Minutes for Approval

Action Items: March 1, 2016 Minutes

School of Literature, Media, and Communication

- Add attribute to existing course
 - LMC 3304: Science, Technology, & Gender (add Ethics attribute)

School of Biology

- New course with attribute
 - BIOL 4651: Foundations in Bioethics 3-0-3
(with Ethics attribute)

Action Items: March 29, 2016 Minutes

School of Modern Languages

- New Course
 - FREN 4250: Reading Les Miserables 3-0-3

School of Economics

- New Course
 - ECON 4520: Economics of Sports 3-0-3

School of Civil and Environmental Engineering

- New Course
 - CEE 3050: Introduction to Structural Engineering 3-0-3

Action Items: March 29, 2016 Minutes

College of Engineering

- All schools within the College of Engineering are requesting to exclude PHYS 2XXX (AP credit) from being used toward degree requirements as it is not calculus-based which is required for programs within the College of Engineering. The programs feel that allowing credit for Physics AP that comes in as Physics elective credit would also result in some overlap of content with courses that students are required to take.

School of Chemical and Biomolecular Engineering

- New Course
 - CHBE 4759: Electrochemical Energy Storage and Conversion 3-0-3

Action Items: March 29, 2016 Minutes

College of Computing

- Degree Modification
 - **Bachelor of Science in Computer Science (Systems & Architecture Thread)**
 - The College of Computing is requesting the addition of ECE 2031- The Digital Design Lab with a grade of “C” or higher as a required course in the Systems and Architecture Thread.
 - **Bachelor of Science in Computer Science (Information Internetworks thread)**
 - The College of Computing is requesting to remove CS 4460 from the Advanced Information Management pick of the Information Internetworks thread. This is because the course is very different in style from the others in that pick.

Action Items: March 29, 2016 Minutes

College of Computing

- Degree Modification
 - **Bachelor of Science in Computer Science (Theory Threads)**
 - Updates changes to MATH courses - proposal focuses on the Theory Threads which requires MATH 2406 and will be updated to the new version MATH 3406 for the upcoming catalog year.
 - **Bachelor of Science in Computer Science (All Threads)**
 - Updates changes to MATH courses - proposal focuses on the MATH core courses for all threads.
 - **Bachelor of Science in Computer Science (Modeling Simulation Threads)**
 - Updates changes to MATH courses - proposal focuses on MATH 2403 which is required in the Modeling Simulation threads which has been updated to MATH 2552.

Action Items: March 29, 2016 Minutes

College of Computing

- Degree Modification
 - **Bachelor of Science in Computer Science (Intelligence Threads)**
 - Computer Vision (CS 4495) was approved as a new course number CS 4476. Request is to reflect new course number in Intelligence thread combinations.
 - **Bachelor of Science in Computer Science (Devices Threads)**
 - ECE is no longer teaching ECE 4185(Embedded Microcontroller Design) and the course has been replaced with ECE 4180(Embedded Systems Design).
 - **Bachelor of Science in Computer Science (Modeling and Simulation Threads)**
 - To correct an error in catalog for the BS in Computer Science Modeling Simulation thread combinations - CS 1171 has only been offered as a pass-fail course, but the *Catalog* indicates it should have a 'C' minimum grade. The C-minimum should be removed.

Action Items: March 29, 2016 Minutes

College of Computing

- New Course
 - CS 2701: Start-up Lab: Intro to Technology Ventures 2-3-3

School of Literature, Media, and Communication

- Degree Modification
 - Bachelor of Science in Computational Media (all Threads)
 - The College of Computing and the School of Literature, Media, and Communication are submitting this proposal to update the IUCC on the changes to MATH courses. This proposal focuses on the MATH core courses for all threads.

Action Items: March 29, 2016 Minutes

School of Psychology

- Degree Modification
 - Bachelor of Science in Psychology
 - Bachelor of Science in Psychology: Business Option
 - The School of Psychology is requesting to add 'C-minimum' to Group B courses (pick 6 hours from: PSYC 2103, 2210, 2230, 2240).
 - This was inadvertently left off from last degree modification (see Proposal 4778). This is for both BPSYIC and BPSYIC: Business Option.

Action Items: April 12, 2016 Minutes

College of Sciences

- Award of a posthumous degree
 - Student was on track to graduate in May 2016. GPA over 3.0, in final courses needed to graduate Spring 2016 term.

School of Materials Science and Engineering

- Degree Modification
 - Bachelor of Science in Materials Science and Engineering (Polymer and Fiber Concentration)
 - The MSE faculty is proposing to **drop** ME 3340 as a required course in the Polymer & Fiber Materials Concentration.
 - This was a carry-forward from the merger of PFE and MSE that occurred in 2011. It no longer makes sense in the curriculum due to pre-req chains.

Action Items: April 12, 2016 Minutes

School of Materials Science and Engineering

- Degree Modification
 - Bachelor of Science in Materials Science and Engineering (All Concentrations)
 - Add ME 1770 as a directed elective course (or, as recommended by the Committee, as a free elective course).
 - MSE graduating seniors who are beginning their careers with industry with the BS degree expressed a need for CAD/CAE training in their Exit Interviews over the past several years, and many have reported that companies are expressly asking them in job interviews if they have such training.
 - The 2014 ABET reviewer and APR review team both recommended in their reports that we include the area as an option for MSE students.

Action Items: April 12, 2016 Minutes

School of Materials Science and Engineering

- Degree Modification
 - Bachelor of Science in Materials Science and Engineering (All Concentrations), continued
 - The MSE Undergraduate Student Advisory Committee recommended we add ME 1770 as directed elective course under the three Concentrations rather than as a required course, as the students entering post-graduate programs (PHD, Medical School, etc.) did not value the course as much as their industry-bound peers, preferring to elect another MSE course instead.

Action Items: April 12, 2016 Minutes

School of Architecture

- New Courses
 - ARCH 1009: Fundamentals of Arch 1 1-9-4
 - ARCH 1010: Fundamentals of Arch II 1-9-4
 - ARCH 1060: Intro to Design and Built Environment 3-0-3
 - ARCH 3404: Arch Design Studio III 1-9-4
 - ARCH 3405: Arch Design Studio IV 1-9-4
 - ARCH 4404: Arch Design Studio V 1-9-4
 - ARCH 4405: Arch Design Studio VI 1-9-4
- Deactivate Courses
 - ARCH 3011, 3012, 4011, 4012

Action Items: April 12, 2016 Minutes

School of Architecture

- Degree Modification
 - Bachelor of Science Degree in Architecture
 - The basis of these proposed changes is to increase flexibility in the curriculum but not lose the rigor.
 - Retooling the curriculum will increase our competitiveness among our peer institutions and establish a rigorous and unique educational profile grounded in design, science and technology for our undergraduate students in preparation for future graduate study and professional employment.
 - Implementing distribution requirements for the COA electives will continue to expose students to a broader range of topics but will also ensure a balanced curricular path for the students.

Action Items: April 12, 2016 Minutes

School of Architecture

- Degree Modification
 - Bachelor of Science Degree in Architecture, continued
 - Create ARCH 1060 and revise content to align with History/Theory sequence.
 - Create ARCH 1009, 1010 to clarify the change from the Common First Year for freshman studios.
 - Increase credit hours in ARCH 1009 from 3 credits to 4 credits.
 - Create ARCH 3404, 3405, 4404, 4405 for 4 credits in order to allow students to enroll in COA electives to fulfill distribution requirements.
 - Redistribute electives between free electives and COA electives (reduces free electives to 15).

Action Items: April 12, 2016 Minutes

School of Industrial Design

- New Courses
 - ID 1011: Industrial Design Fundamentals 1 1-3-2
 - ID 1012: Industrial Design Fundamentals 2 1-3-2
 - ID 1101: Intro to Industrial Design 1 1-0-1
 - ID 1102: Intro to Industrial Design 2 1-0-1
 - ID 1401: Intro to Graphic Communications 1 0-3-1
 - ID 1402: Intro to Graphic Communications 2 0-3-1
 - ID 1418: Intro to Sketching and Modeling 1 0-3-1
 - ID 1419: Intro to Sketching and Modeling 2 0-3-1
- Deactivate Courses:
 - COA 1060, COA 1011, COA 1012

Action Items: April 12, 2016 Minutes

School of Industrial Design

- Degree Modification
 - Bachelor of Science in Industrial Design
 - These proposals will align first year industrial design courses with the strategies introduced in the former BSID – Bachelor of Science in Industrial Design degree modification of 2011.
 - These proposals shift course content from “all-encompassing” design studios to a more articulated series of skills-based courses to be offered separately. This will provide more rigorous and consistent content that will then be integrated into the design development of projects carried out in the related design studio courses.
 - The revised first year curriculum will allow students to learn essential industrial design skills earlier, and create opportunities for more advanced learning in subsequent courses.

Action Items: April 12, 2016 Minutes

College of Architecture

- College Name Change
 - The College of Architecture is changing the name of the college to the **College of Design** to encompass and better describe the full range of academic offerings by the Schools within the college.
 - The name was selected after a thorough review of the options by a consulting firm and after broad discussions with the constituents of the College.

School of Applied Physiology

- New Course
 - APPH 4238: Ion Channel Structure, Function and Regulation 3-0-3

Action Items: April 12, 2016 Minutes

College of the Registrar (Proposed by the Office of the Vice Provost for Undergraduate Education through the Provost's Curriculum Committee)

- *New Course*
 - *GT 2000: Transfer Student Seminar* 1-0-1

School of Chemical and Biomolecular Engineering

- *New Courses*
 - CHBE 4767: Pulp and Paper Lab 1-6-3
 - CHBE 4720: Pulp & Paper Manufacturing 3-0-3
 - CHBE 4730: Emerging Technologies in Forest Bioproducts 3-0-3

Action Items: April 12, 2016 Minutes

School of Chemical and Biomolecular Engineering

- Certificate Modification
 - Pulp and Paper Certificate
 - Rearrange content of lecture courses
 - Propose permanent numbers for lab courses
 - No change in hours required

Action Items and Minutes

Move to approve all action items.

Move to approve Minutes from:

- February 23, 2016 (Petitions)
- March 1, 2016 (Academic Matters)
- March 15, 2016 (Petitions)
- March 29, 2016 (Academic Matters)
- April 5, 2016 (Petitions)
- April 12, 2016 (Academic Matters)