

# **Institute Undergraduate Curriculum Committee**

**Academic Faculty Senate  
Tuesday, October 18, 2016  
3:00-5:00 PM  
Student Center Theatre**

# Report, Action Items, Minutes

- Presented by:
  - Dr. Rhett Mayor, ME, Chair
- Annual Report
- Action Items
- Minutes for Approval

# 2015-2016 Annual Report Summary

**Members:** Ed Coyle (ECE), Thanos Economou (ARCH), Mike Goodisman (BIOL), Laura Hollengreen (ARCH), Suzanne Lee (Scheller CoB), Blair MacIntyre (CoC-IC), Rhett Mayor (ME), Reta Pikowsky (REG), Milena Mihail (CoC-CS), Millard-Stafford (APPH), Elliot Moore (ECE), Charles Parsons (Scheller CoB), Colin Potts (VP-Undergraduate Education), David Scott (CEE), Carol Senf (LMC), Prett Singh (MSE), Jenny Singleton (PSYC), Marc Smith (ME), John Stein (VP-Student Life), Angus Wilkinson (CHEM & BIOCHEM), Lisa Yaszek (LMC), Chen Zhou (IsYE), Adam Greenstein (UG Student), Carrie Shepler (Faculty Exec. Board Liaison)

**Charge:** The work of the Committee falls into four main categories (Curriculum Matters, Student Petitions, General Education, and Study Abroad). All meetings are meetings of the full committee except for the subcommittees and working groups.

# 2015-2016 Annual Report Summary

- **Leadership:** Dr. Rhett Mayor served as Chair of the Committee. Dr. David Scott served as Vice Chair of the Committee. Reta Pikowsky served as Secretary for the Committee.
- The IUCC met **20** times during the past academic year.
- Items addressed included:
  - **Changes in Colleges and Schools**
    - College of Architecture changed its name to the College of Design
    - The Schools of Biology and Applied Physiology were merged and named the School of Biological Sciences
  - **New degree prospectus and new degree**
    - BS in Neuroscience, degree prospectus
    - BS in Music Technology, new degree
  - **New degree options**
    - BS in Biochemistry and Chemistry added Pre-Health Concentration
    - ISyE offering BS/MS in BSIE/MSSCE
    - Chemical and Biomolecular Engineering joined International Plan

# 2015-2016 Annual Report Summary

- Issues addressed included:
  - **Modifications to existing degrees**
    - BS in Computer Science, changes to Threads
    - BS in Psychology, General and Business Options to create more flexibility
    - BS in Computational Media, changes to threads
    - BS in Industrial and Systems Engineering, adding a restriction on the 9 hours of electives, adding an alternative Math sequence
    - BS in Materials and Science Engineering, change Polymer and Fiber concentration, adding a suggestion to Free Electives choices
    - BS in Architecture, several changes
    - BS in Industrial Design, deactivating courses and adding new courses
    - All General Education areas A and D were updated with the new Math courses
    - All Schools in COE exclude AP PHYS 2XXX (AP credit) from counting toward degree

# 2015-2016 Annual Report Summary

- Issues addressed included:
  - **Clarification of program requirements**
    - BS in Psychology, add “C” grade minimum to major requirements
  - **Minors and Certificates**
    - New minors in Technology and Business ( available to Ivan Allen, Design, and Sciences students) and Sustainable Cities
    - Modification of existing minors in Law, Science, & Technology, Social Justice, Engineering and Business, and Computing and Business
    - Modification of existing certificates in Pre-Law and Pulp and Paper Science
  - **New Courses**
    - Approved **52** new courses
    - Denied **1** request for a new course
  - **Deactivated Courses**
    - Deactivated **138** courses!

# 2015-2016 Annual Report Summary

- Issues addressed included:
  - Course grade modes updated for JAPN 4750, added pass/fail option
  - NCP and Syllabi updated
    - MUSI 2525, 2526, 4457, 4458
  - New courses requesting Core Curriculum Attribute
    - BIOL 4651, FREN 4250, LMC 3304, HTS 2051, HTS 2052, BIOL 1220
  - Courses with changed-prerequisites or co-requisites
    - MATH 4107, MATH 4317, CEE 3010, MGT 4742, CS 4742, ME 4742, BIOL 1521, APPH 4600, ISYE 4106, CS 3220, CHEM 3211, CHEM 4581, MSE 3001, MSE 3225, MSE 3230
  - Updates to the International Plan
    - 12 INTA courses approved for various areas
    - Capstone courses updated

# 2015-2016 Annual Report Summary

- Issues addressed included:

- **Student Petitions**

- The IUCC **acted on 290 petitions**, reviewed 5 written appeals of denied petitions, and heard no in-person appeals of denied petitions.
  - **Reviewed by the Registrar, under the authority of the Committee, were 503 petitions** including requests such as readmission after the first drop, use of a "D" grade when the second attempt of the course resulted in an F grade, and requests to return in the following term after withdrawing.
  - **Of the 793 petitions that were acted on, 96 (12.1%) were denied.** Of the 5 appeals, 2 (40%) were denied. Petitions that are handled administratively by the Registrar are sent on to the committee for regular processing only as needed.

- **General Education Subcommittee**

- Met 3 times during Fall, did not meet in Spring
- Defined mission of the Subcommittee, addressed procedural issues, focused on cleaning up pending proposals as per USG requests



# 2015-2016 Annual Report Summary

- Issues addressed included:
  - **Study Abroad Subcommittee (Joint with the Graduate Committee)**
    - Reviewed and approved proposals for **2** fall semester faculty-led study abroad programs, **1** spring semester faculty-led study abroad program, **6** spring semester embedded study abroad programs, **29** summer faculty-led study abroad programs, and heard **0** student appeals.
    - One fall program and 2 summer study abroad programs were cancelled due to low enrollment.
    - Held two meetings during Fall Semester 2015 and conducted the rest of its business by e-mail.

# Action Items from the June 7, 2016 Minutes

## Center for Career Discovery and Development

- *New Courses Approved*
  - INTN 2003: Professional Internship 0-0-3
  - INTN 4003: Professional Internship 0-0-3

## College of Sciences

- *Changes to Schools*
  - School of Biology and School of Applied Physiology merged and named School of Biological Sciences

# Action Items from the August 23, 2016 Minutes

## Schools of Biomolecular Engineering and Mechanical Engineering

- *New Courses*

- ChBE/ME 4720: Pulp & Paper Manufacturing 3-0-3
- ChBE/ME 4730: Emerging Technologies in Forest Bioproducts 3-0-3
- ChBE/ME 4767: Pulp & Paper Lab 1-6-3

# Action Items from the September 6, 2016 Minutes

## School of International Affairs

### • *Degree Modification*

- Bachelor of Science in International Affairs
- Bachelor of Science in International Affairs and Modern Language
- Bachelor of Science in Economics and International Affairs
  - **The following courses should be deleted from the approved list:**
    - AE/CEE/ME 1770 Introduction to Engineering Graphics and Visualization
    - ARCH 4420 Introduction to Design Computing
    - BC 3630 Project Management I
    - CHBE 2120 Numerical Methods in Chemical Engineering
    - CS 1332 Data Structures and Algorithms
    - CS 4235 Introduction to Information Security
    - EAS 4430 Remote Sensing and Data Analytics
    - EAS 4610 Earth Modeling Systems
    - ECE 2030 Introduction to Computer Engineering

# Action Items from the September 6, 2016 Minutes

## School of International Affairs

- *Degree Modification, continued*

- **The following courses should be deleted from the approved list, continued:**

- ID 4103 Alias Studio I
- LMC 3404 Designing for the Internet
- MGT 4058 Database Management Systems
- MGT 4661 Database Management
- MUSI 4630 Music Recording and Mixing
- PHYS 3266 Computational Physics

- **The following courses should be added to the approved list:**

- CS 2316 Data Input and Manipulation
- CS 2803 DWD Dynamic Web Development
- EAS 3110 Environment, Energy and Society
- EAS 4480 Environmental Data Analysis
- ECE 2020 Digital System Design

# Action Items from the September 6, 2016 Minutes

## School of Economics

### • *Degree Modification*

- Limit the core courses to Econ 2105 Prin. Of Macro, Econ 2106 Prin. Of Micro, ECON 2250 Statistics for Economists, ECON 3110 Advanced Micro, ECON 3120 Advanced Macro, and ECON 3161 Econometrics
- Other courses formerly in the core namely ECON 1001 Economics at Work, ECON 4160 Forecasting, ECON 4610 Capstone, and ECON 4910 Senior Thesis will be moved to the elective list
- Changes will provide more flexibility in our curriculum and allow our students to take a more math intensive set of courses (if they desire to go to graduate school in Econ) or a more policy oriented and applied set of courses.

# Action Items from the September 6, 2016 Minutes

## Office of International Education

- *Changes to the International Plan*
  - New courses added to the IP List
    - At the February 11, 2016 IPC meeting, the IPC approved the following courses to satisfy the Country/Region course requirement and should be added to the IP's catalog list:
      - SPAN 3592 Culture and Commerce in the Andes
      - GRMN 4027 Political Songwriting in Germany, 1945 to Present
      - GRMN 4692 Americanization and Anti-Americanism in the Federal Republic of Germany
      - HTS 2051 Colonial Latin America and the World
      - RUSS 4692 Intensive Advanced Russian II
      - RUSS 4693 Intensive Advanced Russian III

# Action Items from the September 6, 2016 Minutes

## School of Materials Science and Engineering

- *Deactivation of Courses*

- MSE 1001, 2020, 3000, 3003, 3020, 4020, 4021, 4777

- *New Courses*

- MSE 4320 Industrial Controls in Manufacturing 3-0-3
- MSE 4759 Electrochemical Energy Storage and Conversion 3-0-3

- *Degree Modification*

- The cross-listed MSE (PTFE)/ECE 4761, 2-3-3, was implemented in the mid-90's by two former faculty members in then PTFE and ECE. Initially the course was equally taught, and the lab component was conducted in an ECE laboratory equipped to handle the experiments.
- In 2003, MSE assumed total teaching responsibility for the 4761 course, and the access to the ECE laboratory facility was lost. Currently, the laboratory component of the course has become untenable.



# Action Items from the September 6, 2016 Minutes

## School of Materials Science and Engineering

- *Degree Modification, continued*
  - ECE still allows the course as an elective, but does not include it in the core curriculum.
  - The request is to drop the MSE 4761 2-3-3 course and by expanding the lecture portion, convert it into a 3-0-3 format with a new number, **MSE 4230, *Industrial Controls in Manufacturing***.

## School of Mechanical Engineering

- *New Course*
  - ME 4759 Electrochemical Energy Storage and Conversion 3-0-3

# Action Items from the September 6, 2016 Minutes

## Schools of Biological Sciences, Chemistry and Biochemistry, Physics, and Psychology

- *New Interdisciplinary Minor*

- Minor in Health & Medical Sciences

- The Health & Medical Sciences Minor is designed to provide students with flexibility to pursue their interests while ensuring that students are exposed to a diversity of subject areas. Therefore, to complete the 15 credit Health & Medical
- Sciences Minor, students will be required to take a minimum of 9 credits of classes from at least two schools other than their home school (i.e., classes with School designators--APPH, BIOL, CHEM, PHYS, PSYC-- other than their major School designator) and a maximum of 6 credits from their home unit. All classes used to fulfill the Health & Medical Sciences Minor must be chosen from the approved list of health-related courses (Appendix I).
- **There was a long discussion during the review of this proposal. The proposers were asked to address questions related to enrollment projections, academic advising, when the minor is declared, when information would be provided about the choice of pre-health careers, and how modifications to the minor would be handled.**

# Action Items from the September 6, 2016 Minutes

## Schools of Biological Sciences

- *New Track-Option within an Existing Degree*
  - BS/MS program (BSBIO/MSBIO)
    - Better serve our students by providing a MS degree to highly-qualified Biology undergrads in half the time of our standard program (and therefore at half the cost). It would enable students who otherwise might not get a Master's degree to compete better on the job market and will provide a degree that recognizes the research accomplishments of highly motivated students. It would also get those who would pursue a MS degree into the job market a year earlier, reducing their opportunity costs.
    - Improve the quality and increase the quantity of the MS-BIOL candidate pool. Note also that, with increased student quality comes better job placement, more loyal alumni, and a better network for career/internship placement and policy-linkages.

# Action Items from the September 20, 2016 Minutes

## School of Mathematics

- *New Courses*
  - MATH 3235: Probability Theory 3-0-3
  - MATH 3236: Statistical Theory 3-0-3

# Action Items and Minutes

- Move to approve all action items.
- Move to approve Minutes from:
  - May 3, 2016 (Petitions)
  - May 17, 2016 (Petitions)
  - June 7, 2016 (Academic Matters)
  - August 23, 2016 (Start-up, Academic Matters, and Petitions)
  - September 6, 2016 (Academic Matters)
  - September 20, 2016 (Academic Matters and Petitions)

**Note: The October 11, 2016 meeting was cancelled.**