

**Institute Undergraduate
Curriculum Committee**

**Academic Faculty Senate
Tuesday, February 17, 2015
3:00-5:00 PM
Student Center Theatre**

Action Items and Minutes

Presented by:

- Dr. Rhett Mayor, ME, Chair, IUCC

Action Items

From the November 18, 2014 Minutes

New Courses

- School of Mathematics
 - MATH 1550: Introduction to Differential Calculus 3-0-3
 - MATH 1551: Differential Calculus 2-1-2
 - MATH 1552: Integral Calculus 4-0-4
 - MATH 1553: Introduction to Linear Algebra 2-1-2
 - MATH 1554: Linear Algebra 4-0-4
 - MATH 1555: Calculus for the Biological Sciences 4-0-4
 - MATH 1564: Linear Algebra with Abstract Vector Spaces 4-0-4
 - MATH 2551: Multivariable Calculus 4-0-4
 - MATH 2552: Differential Equations 4-0-4
 - MATH 2561: Honors Multivariable Calculus 4-0-4
 - MATH 2562: Honors Differential Equations 4-0-4
- School of Modern Languages
 - CHIN 4023 - Chinese Strategy & the Art of War 3-0-3

Course Deactivations

- School of Industrial and Systems Engineering
 - ISYE 2030 Modeling in Industrial Engineering
 - ISYE 4756 Technology Forecasting
 - ISYE 4791 Integrative Prof-Cog Sci
 - ISYE 4257 Appl Robotics & Auto Data
 - ISYE 3332 Honor's Random Systems
 - ISYE 4792 Dsgn Proj-Cognitive Sci

Action Items

From the January 13, 2015 Minutes

New Course

- School of Mathematics
 - MATH 2603: Introduction to Discrete Mathematics 4-0-4
- School of Aerospace Engineering
 - AE 4552: Introduction to Humans and Anatomy 3-0-3

Course Deactivation

- College of Computing
 - CS 1050: Constructing Proofs
- School of Industrial and Systems Engineering
 - ISyE 4790: Cognitive Science

Action Items

From the January 13, 2015 Minutes

Minor Modification

- School of Public Policy
 - Law, Science, and Technology Minor
 - The Law, Science, and Technology (LS&T) minor requires students to take one of four core menu classes. The remaining classes are electives.
 - One of those electives has been a class previously offered as MGT 4803 Special Topic: Law for Entrepreneurs. Add MGT 3614 - Law for Entrepreneurs to the list of electives for this minor.

Certificate Modification: Pre-Law Certificate

- Same provisions as above

Action Items

From the January 13, 2015 Minutes

Certificate Modification

- School of International Affairs
 - Certificate in Latin American Studies
 - This request seeks to add an additional five courses that are now on the GT Catalog to the approved list of courses for Latin American Affairs. One 4801 course is to be removed. These courses are regularly taught, deal extensively with Latin American Affairs, and will allow more students to obtain the certificate and more accurately represent the Latin American Affairs courses currently taught on campus and on study abroad. The number of approved courses will increase from 11 to 15.

Action Items

From the January 13, 2015 Minutes

Certificate Termination

- School of International Affairs
 - Certificate in European Union Studies
 - This termination request is a result of a consolidation of two certificates into one. The Certificate in European Affairs will remain in effect. There is **no enrollment in the European Union Studies Certificate at this time** and information about it has been removed from the Nunn School website. Students have been advised that, if they have an interest in Europe and want a certificate, they should pursue the continuing certificate program. The termination of this certificate will have no negative impact on any students or faculty. The termination can take place as soon as possible.

Action Items

From the January 13, 2015 Minutes

Degree Modification

- College of Computing
- Bachelor of Science in Computer Science (Information Internet Thread)

Add CS 4675 to the Advanced Information Management Pick

[CS 4237](#) or [CS 4251](#) or [CS 4255](#) or [CS 4261](#) or [CS 4270](#) or [CS 4365](#) or [CS 4420](#) or [CS 4440](#) or [CS 4460](#) or [CS 4675](#)

Rational:

This course is centered on Internet computing systems and application development, which is highly relevant and useful for the students in the info-networks thread. Students will learn internet computing from multiple perspectives, ranging from Web, Semantic Web, Mobile computing, sensor network and stream processing to cloud computing, big data processing and data analytics.

Action Items

From the January 13, 2015 Minutes

Degree Modification

- College of Computing
- Bachelor of Science in Computer Science (People Thread)

CHANGES TO THE PEOPLE THREAD

- Require CS 3750 in the People Thread
- Merge the “pick” of User Support Technology into Human Centered Technology pick- Pick 2.
- Add CS 4472 to the Human-Centered Technology Pick
- Remove CS 4625 from new Human Centered Technology Pick.

REASON FOR THESE CHANGES:

The People faculty feel strongly that every student graduating under with this thread should take Human Computer Interaction. To make this work the current model would be changed to:

Must take CS 3750 and pick two of Human-Centered Technology.

Required: CS3750 Human-Computer Interface Design and Evaluation, 3

Action Items

From the February 10, 2015 Minutes

Degree Modification

- School of History, Technology, and Society
 - Bachelor of Science in History, Technology, and Society
 - First, HTS requests **approval to modify the HTS degree to shift 3 credit hours from “Free Electives” to “HTS Electives.”**
 - Second, HTS requests **approval to modify the HTS degree to reflect new courses added to the HTS curriculum that will help fulfill major requirements**, specifically the “Non-U.S.” and the “Science, Technology, and Medicine” requirements.

Action Items

From the February 10, 2015 Minutes

Degree Modification

- School of International Affairs
 - Bachelor of Science in International Affairs
 - The Sam Nunn School of International Affairs requests approval to modify and expand the list of courses that may be taken to fulfill the HTS requirement under Core Area E. This HTS requirement calls for a study of non-US history, to be fulfilled through a social science course with the HTS prefix. Add the following courses to the list of applicable courses:
 - HTS 2040: History of Islamic Societies
 - HTS 3031: European Labor History
 - HTS 3032: European Intellectual History
 - HTS 3046: Science, Politics and Culture in Nazi Germany
 - HTS 3051: Women and Gender in the Middle East
 - HTS 3065: History of Global Societies
 - HTS 3067: Revolutionary Movements

Action Items

From the February 10, 2015 Minutes

Degree Modification

- School of International Affairs
 - Bachelor of Science in Economics and International Affairs
 - The Sam Nunn School of International Affairs requests approval to modify and expand the list of courses that may be taken to fulfill the HTS requirement under Core Area E. This HTS requirement calls for a study of non-US history, to be fulfilled through a social science course with the HTS prefix. Add the following courses to the list of applicable courses:
 - HTS 2040: History of Islamic Societies
 - HTS 3031: European Labor History
 - HTS 3032: European Intellectual History
 - HTS 3046: Science, Politics and Culture in Nazi Germany
 - HTS 3051: Women and Gender in the Middle East
 - HTS 3065: History of Global Societies
 - HTS 3067: Revolutionary Movements

Action Items

From the February 10, 2015 Minutes

Degree Modification

- School of International Affairs
 - Bachelor of Science in Economics and International Affairs
 - The School of Economics requests approval to add ECON 2250 as a required course for the EIA majors. This course will be the first in a sequence of 2 courses (the other two being ECON 3161 Econometrics) for our EIA majors. ECON 2250, “Statistics for Economics” is tailored to provide majors with the tools and concepts that economists use. It was approved and added to the Catalog for the 2014-15 academic year. This class will replace MGT 2250, which will be deleted from the EIA curriculum.

Core F: Required class

- **Delete MGT 2250**
- **Add ECON 2250**

Action Items

From the February 10, 2015 Minutes

Degree Modification

- School of International Affairs
 - Bachelor of Science in International Affairs and Modern Language
 - The Sam Nunn School of International Affairs requests approval to modify and expand the list of courses that may be taken to fulfill the HTS requirement under Core Area E. This HTS requirement calls for a study of non-US history, to be fulfilled through a social science course with the HTS prefix. Add the following courses to the list of applicable courses:
 - HTS 2040: History of Islamic Societies
 - HTS 3031: European Labor History
 - HTS 3032: European Intellectual History
 - HTS 3046: Science, Politics and Culture in Nazi Germany
 - HTS 3051: Women and Gender in the Middle East
 - HTS 3065: History of Global Societies
 - HTS 3067: Revolutionary Movements

Action Items

From the February 10, 2015 Minutes

Degree Modification

- School of Industrial and Systems Engineering
 - Bachelor of Science in Industrial Engineering
 - Remove CEE 3000 Civil Engineering Systems from the approved Engineering electives.
 - Remove MGT 3150 from business electives.

Action Items

From the February 10, 2015 Minutes

Degree Modification

- School of Industrial and Systems Engineering
 - Bachelor of Science in Industrial Engineering
 - CEE 3000 covers communications, engineering economy and basics of civil systems. ISyE now covers communications in senior design as well as in a technical communications class. Engineering economy is a required course for BSIE. **Therefore, there is insufficient new materials in the course for BSIE students.**
 - BSIE curriculum has 3 credit management elective. The current curriculum allows the students to select from ACCT 2101 Accounting I, MGT 3000 Finance and Management Accounting and MGT 3150 Principles of Management. Accounting is extremely important for ISyE students. **ISyE would require every graduate to have at least one accounting course. This can be achieved by removing MGT 3150.** ISyE has 11 hours of free electives. Those interested 3150 can use the free electives.

Action Items

From the February 10, 2015 Minutes

Degree Modifications

- Department of Biomedical Engineering - Bachelor of Science in Biomedical Engineering
 - 4-credit hour courses BMED 3300 and 3510 will be replaced by two new 3-credit-hour versions, BMED 3310 and BMED 3520, with the same titles. This will free up credit hours to add new required courses. The prerequisites for the new versions have been modified slightly to better reflect the topical content of the courses.
 - ECE 3710 and 3741 will be added as required courses to address needs for the students to have better understanding of circuits and instrumentation.
 - BMED 1300 “Problems in BME I” will be renamed/numbered to BMED 2250 “Problems in Biomedical Engineering” with BMED 2210 as a prerequisite. A significant percentage of freshmen who take BMED 1300 will change majors. This change will significantly reduce the number of students who take this course and allow BME to better manage its teaching resources.
 - Prerequisites for BMED 2210 will be changed to remove PHYS 2211 as a prerequisite (i.e. leaving MATH 1501 AND CHEM 1211K as the only prerequisites). This better reflects the topical content of the course.
 - BMED 2300 “Problems in BME II” will be renamed/renumbered to BMED 2310 “Intro to BME Design” with prerequisites of BMED 2210 AND BMED 2250 (both with a minimum grade of C). The content of the course will remain the same. The new name better reflects the topical content of the course.
 - BMED 1000 will be eliminated as a required course. The major and career advisement formerly provided by this course will be replaced by a series of workshops and seminars, both live and video recorded, conducted by the staff of the BME Academic Office. This will provide greater flexibility and access to advisement resources without charging them tuition for it.

Action Items

From the February 10, 2015 Minutes

New Courses

- Scheller College of Business
 - MGT 4450: Project Management 3-0-3
 - MGT 4725: Information Security Strategies and Policy 3-0-3
 - MGT 4726: Privacy, Technology, Policy, and Law 3-0-3
- College of Computing
 - CS 4725: Information Security Strategies and Policy 3-0-3
 - CS 4726: Privacy, Technology, Policy, and Law 3-0-3

Note: These are cross-listed courses with MGT.
- School of Chemical and Biomolecular Engineering
 - CHBE 4050: Science and Engineering of Microelectronic Fabrication 3-0-3
- Department of Biomedical Engineering
 - BMED 2250: Problems in Biomedical Engineering 1-6-3
 - BMED 2310: Intro to Biomedical Engineering Design 1-6-3
 - BMED 3310: Biotransport 2-3-3
 - BMED 3520: Biomedical Systems and Modeling 2-3-3

Action Items and Minutes

Move to approve all action items.

Move to approve Minutes from:

- November 18, 2014 (Academic Matters)
- December 9, 2014 (Petitions)
- January 6, 2015 (Petitions)
- January 13, 2015 (Academic Matters)
- January 20, 2015 (Petitions)
- February 10, 2015 (Academic Matters)