

INSTITUTE UNDERGRADUATE CURRICULUM COMMITTEE

Fall Meeting

Faculty, Faculty Senate, & Academic Faculty Senate

Tuesday, October 20, 2015

3:00-5:00 PM

Student Center Theatre

REPORT, ACTION ITEMS, MINUTES

- **Presented by:**
 - **Dr. David Scott, CEE, Vice Chair, IUCC**
- **2014-2015 Annual Report**
- **Action Items**
- **Minutes for Approval**

ANNUAL REPORT

Members:

Roberta Berry (PUBP), Ed Coyle (ECE), Thanos Economou (ARCH), Mike Goodisman (BIOL), Laura Hollengreen (ARCH), Michael Loss (MATH), Blair MacIntyre (CoC-IC), Rhett Mayor (ME), Reta Pikowsky (REG), Milena Mihail (CoC-CS), Charles Parsons (Scheller CoB), Colin Potts (VP-Undergraduate Education), Lakshmi Sankar (AE), David Scott (CEE), Carol Senf (LMC), Jenny Singleton (PSYC), Marc Smith (ME), John Stein (ODOS), Francis Ulgado (Scheller CoB), Angus Wilkinson (CHEM & BIOCHEM), Yaszek (LMC), (Chen Zhou (IsYE), Laura Margaret Burbach (Undergraduate Student), George Riley (Executive Board Liaison)

ANNUAL REPORT

Meetings and Charge:

- The IUCC held 24 meetings during the 2014-2015 academic year plus additional subcommittee meetings on focused topics (General Education and Study Abroad).
- The work of the Committee falls into four main categories (Curriculum Matters, Student Petitions, General Education, and Study Abroad).

ANNUAL REPORT

Leadership:

- Dr. Rhett Mayor served as Chair of the Committee.
- Dr. Laura Hollengreen served as Vice Chair of the Committee and Chair of the General Education Subcommittee.
- Reta Pikowsky served as Secretary for the Committee.

ANNUAL REPORT

- The full, 15-page Annual Report is posted to the website.
- Highlights include:
 - Changes to undergraduate minor guidelines
 - Discussion of online courses
 - New collaborative programs, BS/JM with Emory University
 - Several degree modifications
 - Three new minors (Social Justice, Science Fiction Studies, and Architecture)
 - Several minor modifications
 - New certificates (Construction Management, Computational Design, and Sustainable Architecture)

ANNUAL REPORT

- Deactivation and modification of existing certificates
- Changes to courses
- New IAC subject code
- Sixty-five new courses (various units – CS, MATH, INTA, LMC, CHIN, AE, MGT, CHBE, BMED, PUBP, ENGL, BIOL, BC, MUSI, ARCH, ECON, ME)
- Deactivation of courses
- New courses with Core attributes
- 814 petitions, up from 705 last year
- Meetings of General Education Subcommittee and Study Abroad Subcommittee

ACTION ITEMS

From the June 16, 2015 Meeting:

New Courses

- MATH 0399: Support for Precalculus 0-2-0
 - Required by the USG for Learning Support program
- MUSI 2525: Introduction to Audio Technology I 3-0-3
- MUSI 2526: Introduction to Audio Technology II 3-0-3
- MUSI 4457: Computational Music Analysis 3-0-3
- MUSI 4458: Computer Music Composition 3-0-3
- MUSI 1001: Laptop Orchestra 2-3-3
- ARCH 3115: Modern Architecture & Art Workshop 3-0-3

ACTION ITEMS

From the July 21, 2015 Meeting:

New Subject Code

- *IAC – Ivan Allen College*

Add Research Option

- BS-International Affairs
- BS-International Affairs and Modern Language
- BS-Economics and International Affairs

ACTION ITEMS

From the July 21, 2015 Meeting:

Modify Collaborative Agreement with Georgia State

- BS/MAT:
 - Change the title of the MOU from “Collaboration Between Georgia Institute of Technology and Georgia State University to Offer Bachelor of Science/Master of Teaching Degree Program” to “Collaboration between the Georgia Institute of Technology and Georgia State University to Offer Bachelor of Science/Master of Arts in Teaching Option.”
 - Change of minimum cumulative 3.5 GPA eligibility requirement to 3.0.
 - Change wording of the MOU related to GRE requirements (change from minimum score to “submission of acceptable score.”)

ACTION ITEMS

From the July 21, 2015 Meeting:

Modify Minor

- Minor in Materials Science and Engineering
 - Allow a maximum of 3 semester hours of Special Topics courses to be included in the minor program for Materials Science and Engineering. No Special Problems, Undergraduate Research, or Internship coursework may be used towards the MSE minor.

New Courses

- ARCH 4515: Collaborative Design 3-0-3
- ARCH 4232: On Growth and Form 3-0-3

ACTION ITEMS

From the July 21, 2015 Meeting:

New Courses

- ARCH 4310: How Do We Dwell 3-0-3
- ARCH 4630: Architecture Space and Culture 3-0-3
- CS 4476: Introduction to Computer Vision 3-0-3

New Minor

- Minor in Architecture

ACTION ITEMS

From the August 11, 2015 Meeting:

New Courses

- ECON 4370: Law and Economics 3-0-3
- ME 4013: Hybrid Vehicle Powertrains 3-0-3
- ARCH 4503: BIM Applications 3-0-3
- ARCH 4505: Geometric Constructs 3-0-3
- ARCH 4507: Parametric Design 3-0-3
- ARCH 4508: Shape Grammars 3-0-3
- ARCH 4701: Analog-Digital Design Computation 3-0-3
- ARCH 4702: Design Scripting 3-0-3
- ARCH 4226: Green Construction 3-0-3
- ARCH 4240: Building Simulation 3-0-3
- ARCH 4320: Retrofitting Suburbia 3-0-3
- ARCH 4447: Urban Ecological Design 3-0-3

ACTION ITEMS

From the August 11, 2015 Meeting:

New Certificate

- Certificate in Computational Design
- Certificate in Sustainable Architecture

Deactivation of Courses

- PTFE prefix courses (long list, cross-listed with MSE which will continue to be active)

ACTION ITEMS

From the September 1, 2015 Meeting:

New Courses

- MATH 2550: Introduction to Multivariable Calculus 2-0-2
- MATH 3406: A Second Course in Linear Algebra 3-0-3
- MUSI 2012: Fundamentals of Musicianship III 3-0-3
- MUSI 2013: Fundamentals of Musicianship IV 3-0-3
- MUSI 3541: Electronic Percussion Ensemble 0-3-1
- MUSI 3411: Chamber Ensemble 0-3-1
- MUSI 4456: Music Technology History & Repertoire 3-0-3
- MUSI 3770: Project Studio: Technology 4-0-4
- MUSI 3771: Project Studio: Analysis 3-3-4
- MUSI 4459: Digital Signal Processing for Music 3-0-3
- MUSI 4677: Music Perception and Cognition 3-0-3
- MUSI 4705: Music Technology Capstone I 4-0-4

ACTION ITEMS

From the October 6, 2015 Meeting:

Course Deactivations

- PSYC 2300, 3060, 4310, 4320

New Courses

- PSYC 4011: Cognitive Psychology 3-3-4
- PSYC 4020: Biopsychology 3-0-3
- PSYC 4041: Human Sensation and Perception 3-3-4
- CEE 4350: Environmental Technology in the Developing World 3-0-3

Degree Modification

- BS in Psychology
 - Our current curriculum is exhaustive, requiring students to take 9 core courses and a total of 48 hours within the school for a major in psychology. This is very different from all psychology majors that we have examined both in terms of the number of required hours and the rigidity of the requirements. Our course offerings reflect traditional areas of psychology, but do not necessarily reflect the distribution of faculty expertise.

ACTION ITEMS

From the October 6, 2015 Meeting:

New Degree

- **BS in Music Technology (122 total hours)**
 - combines rigorous professional training in music with intensive interdisciplinary study in mechanical engineering, electrical engineering, computer science, or industrial design.
 - integrates a broad range of musical styles, performance practices, and creative projects with the design, development, and implementation of advanced music technologies
 - students gain substantive theoretical and practical skills in performance, computer music, world music, sound synthesis, music production, software development, digital signal processing, acoustics, psychoacoustics, and music perception and cognition.
 - additional specialties can include music information retrieval, human-computer interaction, robotic musicianship, composition, interactivity, multimedia, audio systems, and sound design

ACTION ITEMS

From the October 6, 2015 Meeting:

New Degree

- BS in Music Technology (122 total hours)
 - BSMT with General Concentration
 - BSMT with Concentration in Mechanical Engineering – Acoustics and Vibrations
 - BSMT with Concentration in Mechanical Engineering – Controls and Robotics
 - BSMT with Concentration in Electrical and Computer Engineering

Minor Modification

- Law, Science, and Technology Minor

Certificate Modification

- Pre-law Certificate

ACTION ITEMS

From the October 6, 2015 Meeting:

Course Deactivations

- All existing courses with an LCC subject code (new versions with the LMC prefix were approved previously)

ACTION ITEMS AND MINUTES

- Move to approve all action items.
- Move to approve Minutes from:
 - April 28, 2015 (Petitions)
 - May 12, 2015 (Petitions)
 - June 2, 2015 (Petitions)
 - June 16, 2015 (Academic Matters)
 - July 21, 2015 (Academic Matters)
 - July 22, 2015 (Petitions)
 - August 11, 2015 (Academic Matters)
 - August 18, 2015 (Petitions and Start-up)
 - September 1, 2015 (Academic Matters)
 - September 15, 2015 (Petitions)
 - October 6, 2015 (Academic Matters)