

**Institute Undergraduate Curriculum Committee
Appeals and Academic Matters (Full Committee)
Tuesday, April 16, 2013**

Present: Agrawal (ChBE), Senf (LMC), Smith (ME), Economou (ARCH), Forman (CoB), Goodisman (BIOL), Sankar (AE), Hollengreen (ARCH), Loss (MATH), Yaszek (LMC), Potts (Provost Office)

Visitors: Laros (REG), Merkousko (REG), Clarke (CoB), Winders (HTS), Pereira (ARCH), Gamble (ARCH), Riley (ECE), Evanuk (OIE/IP), Abelew (APPH), Tucker (ARCH), Kennedy (PHYS), Millard-Stafford (APPH), Rosskopf (APPH)

Note: All action items in these minutes require approval by the Academic Senate. In some instances, items may require further approval by the Board of Regents or the University System of Georgia. If the Regents' approval is required, the change is not official until notification is received from the Board to that effect. Academic units should take no action on these items until USG and/or BOR approval is secured. In addition, units should take no action on any of the items below until these minutes have been approved by the Academic Senate or the Executive Board.

Academic Matters

1. A motion was made to approve a request from the School of Psychology for a degree modification. The motion was seconded and approved.

Degree Modification - Approved
Bachelor of Science in Psychology

We wish to limit the number of Special Problem hours that a student can apply to the Psychology major curriculum to 3 so that we have confidence our majors are taking courses that have already been extensively vetted.

The current curriculum approval says:

PSYC 2901-2903 Special Problems (arranged hours) [permission of instructor]

The proposed curriculum should be:

Maximum of three credits of PSYC 2901-2903 Special Problems

Degree total remains 122 required

2. A motion was made to approve a request from the School of Mathematics for a minor modification. The motion was seconded and approved.

Minor Modification - Approved
Minor in Mathematics

The current Minor in Mathematics allows no more than 4 semester hours of Special Topics courses may be used for this minor. After comparing this to the Institute Guidelines of a minor we would like to change our restriction to match these guidelines of allowing only 3 semester hours of Special Topics to be used.

Curriculum for Math Minor:

A student may earn a minor in mathematics by fulfilling, in addition to the general Institute requirements, the requirements in one of the two tracks specified below.

Track I

MATH 4317, MATH 4107, MATH 4305, and nine additional hours of 3000 level or higher mathematics courses.

Track II

At least 9 hours in one of the following fields:

1. Analysis: MATH 4317, 4318, 4320, 4581, 4640, 4641
2. Algebra and Number Theory: MATH 4012, MATH 4107, 4108, 4150, 4305
3. Probability and Statistics: MATH 3215, 3770, 4221, 4222, 4255, 4261, 4262, 4280
4. Dynamics and Differential Equations: MATH 4347, 4348, 4541, 4542, 4581
5. Discrete Mathematics: MATH 3012, 4012, 4022, 4032, 4580
6. Geometry and Topology: MATH 4431, 4432, 4441

Nine additional hours of 3000 level or higher mathematics courses are also required.

Further Rules

1. No more than **three** ~~four~~ semester hours of Special Topics courses may be used. **No more than three semester hours of Undergraduate Research courses may be used.**
 2. No Special Problems or Internship coursework may be used.
 3. All coursework in the program must be completed with an overall grade point average of at least 2.0.
 4. Courses must be completed on a letter grade mode.
 5. Courses required by name and number in a student's major degree program may not be used in satisfying the minor requirement.
 6. [Institute undergraduate minor guidelines](#) must be satisfied.
3. A motion was made to approve a request from the Office of International Education, International Plan for an update to the IP rules. The motion was seconded and approved.

International Plan updates - Approved

International Plan Foreign Language Requirement

The International Plan (IP) requires that all participants develop proficiency in a language other than English through the 2002-level or equivalent. Most IP students enroll in Modern Languages

courses to satisfy this requirement. However, up until now, the IP requirements did not specify whether these courses must be taken for a letter grade. **At their March 28, 2013 meeting, the International Plan Committee voted to approve a new rule that all Modern Languages courses taken for the purposes of the International Plan must be taken for a letter grade.** This will make the foreign language policy consistent with the IP's global coursework policy which states that the globally-focused courses must be taken for a letter grade.

4. A motion was made to approve a request from the Schools of History Technology and Society and Literature, Media, and Communication for a new minor. The motion was seconded and approved.

New Minor - Approved

Minor in Science, Technology, and Society

The Ivan Allen College proposes an interdisciplinary minor to be housed in the School of History, Technology, and Society with the degree inscription: Minor in Science, Technology and Society (STS).

The study of Science, Technology, and Society will provide a context for understanding how science and technology fits within our social world, past and present. It offers students a better understanding of how science and technology develop and change, how they are represented and understood in culture, and how various social and historical contexts shape science and technology. This area of study also develops analytical abilities, verbal and written communications skills, and the critical thinking. It is good preparation for a broad array of careers, including business, education, government, and law.

The STS minor will be housed in the School of History, Technology, and Society for purposes of advisement, assessment, and oversight. However, faculty in LMC as well as HTS will teach the curriculum.

- Students select 2 HTS courses and 2 LCC/LMC courses from a menu of courses in the respective schools, and then select one additional course from those menus.
- Nine of the fifteen hours must be at the 3000 level or above.
- Three hours taken outside of STS courses may be counted toward the minor, with approval of the HTS minor advisor.
- Courses required by name and number and/or used to satisfy Core Areas A through E in a student's major degree program may not be used in satisfying the course requirements for a minor.
- All courses must be taken on a letter-grade basis and must be completed with an overall grade-point average of 2.0.
- No more than six hours of Special Topics (elective) courses may be counted toward the minor.
- Special Problems courses may not be counted toward the minor.

Curriculum Delivery Model and Proposed Locations: Here are existing courses in HTS and LMC that will fulfill the requirements of the STS minor

HTS 1081	Engineering in History
HTS 2081	Scientific Revolution
HTS 2082	Technology and Science in the Industrial Age
HTS 2084	Technology and Society
HTS 2100	Science, Technology, & the Modern World
HTS 3001	American Economic History
HTS 3007	Sociology of Work and Industry
HTS 3020	Gender and Technology
HTS 3021	Women in Science and Engineering
HTS 3046	Science, Politics, and Culture in Nazi Germany
HTS 3081	Technology and the Environment
HTS 3082	Sociology of Science
HTS 3083	Technology and American Society
HTS 3084	Culture and Technology
HTS 3085	Law, Technology, and Politics
HTS 3086	Sociology of Medicine and Health
HTS 3087	History of Medicine
LMC 3102	Science, Technology, and the Classical Tradition
LMC 3104	The Age of Scientific Discovery
LMC 3106	The Age of Scientific Revolution
LMC 3108	Science, Technology, and Enlightenment
LMC 3110	Science, Technology, and Romanticism
LMC 3112	Evolution and the Industrial Age
LMC 3114	Science, Technology, and Modernism
LMC 3116	Science, Technology, and Postmodernism
LMC 3118	Science, Technology, and the American Empire
LMC 3214	Science Fiction
LMC 3219	Literature and Medicine
LMC 3302	Science, Technology, and Ideology
LMC 3304	Science, Technology, and Gender
LMC 3306	Science, Technology, and Race
LMC 3308	Environmentalism and Ecocriticism
LMC 3318	Biomedicine and Culture
LMC 3352	Film and/as Technology

In addition to the courses listed here, there are other courses offered less regularly – for example, Special Topics and Undergraduate Research classes – that may count toward the minor. The STS advisor will be able to advise students on these additional courses.

Note: The LMC subject code that replaces LCC will begin Summer 2014; therefore, current students will be taking the LCC versions of the above courses.

5. A motion was made to approve a request from the School of Physics for a degree modification, new courses, and course deactivation. The motion was seconded and approved.

Degree Modification - Approved

Bachelor of Science in Physics (add Astrophysics concentration)

We will add 2 new elective courses of an astrophysical nature at the 4000 level, Phys 4247 Cosmology and Phys 4347 Fundamentals of Astrophysics, and replace (deactivate) an existing elective course, Phys 4146 Special Relativity, with (new course) Phys 4147 Relativity. These courses, together with several existing physics electives, will constitute the base of a concentration in astrophysics. The concentration consists in the selection of 12 of 17 physics elective credit hours with approved astrophysics courses. All of the approved astrophysics courses will be valid electives for the current B.S. Physics and B.S. Applied Physics degrees. Core B.S. Physics degree requirements will remain unchanged. The School's Chair, Center for Relativistic Astrophysics and Undergraduate Committee all support the creation of the concentration to guide the choice of elective courses of students with an interest in astrophysics, including those involved in undergraduate research and those who will proceed to graduate school in this and allied disciplines.

The key difference between the current B.S. physics degree and B.S. with astrophysics concentration is that the latter will require 12 of 17 physics elective credit hours to be chosen from a set of selected astrophysics courses: 3 hours at 2000 level, 3 hours at 3000 level or above and 6 hours at the 4000. The remaining 5 physics elective hours will still include 3 hours of a laboratory course. The astrophysics concentration courses, all 3 hour electives, are as follows:

- Phys 2021 The Solar System
- Phys 2022 Stars, Galaxies and the Universe
- Phys 3021 Stellar Astrophysics
- Phys 4147 Relativity (proposed replacement for Phys 4146 Special Relativity)
- Phys 4247 Cosmology
- Phys 4347 Fundamentals of Astrophysics
- Phys 4263 Nuclei, Fields and Particles

New Courses - Approved

PHYS 4147: Relativity	3-0-3
PHYS 4247: Cosmology	3-0-3
PHYS 4347: Fundamentals of Astrophysics	3-0-3

Note: The above courses will be coded at catalog level for all three grade modes.

Deactivate Course - Approved

PHYS 4146: Special Relativity

Elective course Phys 4146 Special Relativity will be deactivated and replaced with Phys 4147 Relativity

6. A motion was made to approve a request from the School of Applied Physiology for new courses. The motion was seconded and approved.

New Courses - Approved

APPH 3753: Fundamentals of Anatomy	3-0-3
APPH 3754: Laboratory of Human Anatomy	0-3-1
APPH 3755: Human Physiology	3-0-3

APPH 3756: Laboratory in Human Physiology 0-3-1

Note: These courses are to be cross-listed with Biology.

7. A motion was made to approve a request from the School of Biology for new courses. The motion was seconded and approved.

New Courses - Approved

BIOL 3753: Fundamentals of Anatomy 3-0-3

BIOL 3754: Laboratory in Human Anatomy 0-3-1

Note: These courses are to be cross-listed with Applied Physiology. BIOL 3755 and 3756 will be submitted as new courses for approval at a later IUCC meeting.

8. A motion was made to table a request from the College of Computing for a degree modification. The motion was seconded and approved.

Degree Modification - Tabled (CS did not have a representative at the meeting to discuss this proposal.)

Bachelor of Science in Computer Science

- Removal of CS 3240 from requirements as this course is going to be sunsetted.
- Addition of CS 4210 to picks as this was erroneously left off when the thread was formed.
- Addition of CS 4220 as the faculty feel this course is consistent with the goals of the Systems & Architecture thread and thus should be in a pick.
- Removal of CS3251 because it is not central to the thread and the Information Internetworking thread covers this. Students who wish this content can take the Systems & Architecture thread and the Information Internetworking thread for their degree path.
- Renaming of two of the three picks to reflect better their content.

Systems/Architecture Changes 2013-14
Effect on Thread Combinations

Devices and Systems/Architecture:

- (1) Remove CS 3240
- (2) Remove Pick 1 Computer Architectures
- (3) Add Pick 1 Systems & Architecture
- (4) Add Pick 1 System Software Tools
- (5) Add Pick 1 Advanced Systems & Architecture
- (6) Reduce Free Electives to 10 Hours

Intelligence and Systems/Architecture:

- (1) Remove CS 3240
- (2) Remove Pick 1 Computer Architecture
- (3) Remove Pick 1 Platform Interfaces

- (4) Add Pick 1 Computation Complexity (This pick for Intelligence was previously fulfilled by CS 3240)
- (5) Add Pick 1 Systems & Architecture
- (6) Add Pick 1 System Software Tools
- (7) Add Pick 1 Advanced Systems & Architecture
- (8) Reduce Free Electives to 7 hours

Information Internetworks and Systems/Architecture; Media and Systems/Architecture; Modeling/Simulation and Systems/Architecture; People and Systems/Architecture; Systems/Architecture and Theory:

- (1) Remove CS 3240
- (2) Remove Pick 1 Computer Architecture
- (3) Remove Pick 1 Platform Interfaces
- (4) Add Pick 1 Systems & Architecture
- (5) Add Pick 1 System Software Tools
- (6) Add Pick 1 Advanced Systems & Architecture

Courses under Picks:

Computational Complexity: CS 3240, CS 4510

Systems & Architecture: CS 3220, CS 4210

System Software Tools: CS 3300, CS 4240

Advanced Systems & Architecture: CS 4220, CS 4290

- 9. A motion was made to approve a request from the School of Architecture for a degree modification and new courses. The motion was seconded and approved.

Change Existing Course – No vote required – the course was already approved. This item was informational.

ARCH 3135: City Literacy (previously approved as 4135)

Request to change to 3135 and request core attributes (SS and GP)

Create ARCH 3135 and Deactivate ARCH 4135

(Scheduled to be taught beginning 201305)

Degree Modification - Approved

Bachelor of Science in Architecture

The current proposal reflects changes to the Bachelor of Science in Architecture degree requirements. The course requirements being modified here reflect the shift towards greater presence of digital design tools in the discipline of architecture. These new courses a part of our effort to strengthen the design computing knowledge of our undergraduate students and further prepare them for a Professional Degree in architecture.

We request to change the visual arts/computing requirement to add as a requirement Media and Modeling II and Media and Modeling III. It is intended that these would be taught to sophomores in the fall and spring semesters as a companion to architectural design studios ARCH 2011 and ARCH 2012. A visual arts/computing requirement of one 3 hour course already exists and it is the intent that Media and Modeling II would replace that current requirement. Media and Modeling III would be an additional 3 hour course added to the

required curriculum in place of one elective. No additional credit hours are added to the degree.

CURRENT PROGRAM

CORE AREA F – COURSES RELATED TO MAJOR

COA 1011 Fundamentals of Design and Built Environment I – 3 Hours
COA 1060 Intro to Design and Built Environment – 3 Hours
COA 1012 Fundamentals of Design and Built Environment II – 4 Hours
ARCH 2011 Architecture Design Studio I – 4 Hours
ARCH 2111 History of Architecture I – 3 Hours
TOTAL 17 hours

BS ARCH MAJOR REQUIREMENTS

ARCH 2012 Architecture Design Studio II – 4 hours
ARCH 2112 History of Architecture II – 3 hours
ARCH 2211 Construction Technology I – 3hours
ARCH 3011 Architecture Design Studio III – 4 hours
ARCH 3012 Architecture Design Studio IV – 4 hours
ARCH 3231 Environmental Systems – 3 hours
ARCH 3241 Fundamentals of Structures – 3 hours
TOTAL 24 hours

BS ARCH ELECTIVES

Visual Arts/Design Computing Requirement – 3 hours
Additional Arch Electives – 9 hours
TOTAL 12 hours

SENIOR STUDIOS or 10 HOUR CLUSTER

ARCH 4011 Architecture Design Studio V – 5 hours
ARCH 4012 Architecture Design Studio VI – 5 hours
Or
10 HOUR CLUSTER – to replace senior studio requirement
TOTAL 10 hours

FREE ELECTIVES

21 HOURS

PROPOSED PROGRAM

Bachelor of Science in Architecture (BS Arch – 131 semester hours)

Mathematics (8 sh)

MATH 1501 (4 sh) and MATH 1502 (4 sh)

Science (8 sh)

PHYS 2211 (4 sh) and Approved Science Elective (4 sh) (EAS 1601 recommended)

Humanities (12 sh)

ENGL 1101 (3 sh), ENGL 1102 (3 sh) and Electives (6 sh)

Social Sciences (12 s/h)

HIST 2111, HIST 2112, POL 1101, INTA 1200 or PUBP 3000 (3 sh)
HTS 3011 (3 sh)
Electives (6 sh)

Computing (3 sh)

CS1315 or CS 1301 (3 sh)

Wellness (2 sh)

HPS 1040 (2 sh)

Architecture Program Requirements

Introductory Courses (10 sh)

COA 1011 (3 sh), COA 1012 (4 sh) and COA 1060 (3 sh)

Architectural History & Theory (6 sh)

ARCH 2111 (3 sh) and ARCH 2112 (3 sh)

Architectural Technology (9 sh)

ARCH 2211 (3 sh), ARCH 3231 (3 sh) and ARCH 3241 (3 sh)

Architectural Design (18 sh)

ARCH 2011 (4 sh) (may take ARCH 4105)

ARCH 2012 (4 sh) (may take ARCH 4106)

ARCH 3011 (5 sh) , ARCH 3012 (5 sh)

Senior Studio or Cluster Electives (10 sh)

Students pursuing the professional track must complete the 10 sh senior level sequence in architectural design

(ARCH 4011 and 4012) or complete an approved cluster of courses.

Architecture Electives (12 sh)

~~ARCH 4411, 4414, 4415 or 4420 (3 sh) (satisfies BS Arch Visual Arts requirement)~~

~~Architecture Media and Modeling II~~

~~Architecture Media and Modeling III~~

Electives (9 sh) (May be comprised of undergraduate courses from the Schools of Architecture, Building Construction, City and Regional Planning or Industrial Design)

~~**Free Electives (21 sh) (may take any courses offered at GT)**~~

~~**Free Electives (18 sh) (may take any courses offered at GT)**~~

New Courses - Approved

ARCH 2472: Architecture Modeling & Media 2 3-0-3

ARCH 2474: Architecture Modeling & Media 3 3-0-3

10. A motion was made to approve a request from the College of Business for a degree modification, new courses, a course deactivation, a certificate modification and an acknowledgement of a prerequisite modification. The motion was seconded and approved.

Degree Modification - Approved

Bachelor of Science in Business Administration

- Replace Special Topics courses with new permanent course numbers for the Accounting, Finance, General Mgt., Information Technology Mgt., Leading and Managing Human Capital, Marketing and Operations & Supply Chain Mgt. concentrations. New course numbers added on the attached curriculum pages.
- Correct two transposed course numbers for the Marketing and General Management concentrations – change MGT 4506 to MGT 4056 and MGT 4630 to MGT 4360.
- Delete MGT 3600 course from elective lists for the Marketing and General Management concentrations – (no such course, listed in error)
- Remove deactivated course number MGT 3315 course from elective lists for the Marketing and General Management concentrations – (former quarter course number, listed in error)
- Remove deactivated course number MGT 4901 from the Marketing concentration and the General Management concentration
- Add MGT 4910 Special Problems to the group “B” courses for the Accounting, Finance, Marketing and Operations Supply Chain Management concentrations
- Move MGT 3743 from elective group “B” courses to elective group “A” courses for the Information Technology Mgt. concentration
- Allow HPS transfer elective courses to be used towards the elective requirement for BSBA

The full detailed curriculum pages reflecting the specifics for the above BSBA changes are viewable on the ICC web site.

New Courses - Approved

MGT 3082: Fundamentals of Real Estate Development 3-0-3

MGT 3663: Technology Strategy 3-0-3

Note: The committee approved MGT 3663 contingent upon MGT re-evaluating whether a possible prerequisite might be needed for the course. The Registrar's Office will work with MGT to follow up with this.

Note: In reference to the above note, regarding MGT 3663, the prerequisite will be ECON 2106 - Principles of Microeconomics.

Deactivate Course - Approved

MGT 4310: E-commerce and Marketing

MGT 4310 (E-commerce and Marketing) hasn't been taught since spring 2003. The topic is covered by two courses now: MGT 4311 (Digital Marketing) and MGT 4056 (Electronic Commerce).

Certificate Modification - Approved

Certificate in International Management name change request to
Certificate in International Business

As part of a change in degree program's nomenclature, the name of the certificate is being adjusted to Certificate in International Business, reflecting the shift from College of Management to College of Business of June 2012 and further underlining the fact that the leading academic organization in the field bears the title of Academy of International Business. This appropriate appellation mirrors the generally accepted terminology of the past few years to designate academic credentials relating to the operation of business across boundaries in a global economy.

Course Requirements for the International Business Certificate (ALL majors)

- **Language Requirement Two years (four semesters) of foreign language** at the college level or passing an equivalency test administered by the Modern Languages Department is required to be eligible for the IB Certificate.
- **CoB Core Requirements** (3 courses)

ECON 2105 Microeconomics

ECON 2106 Macroeconomics

MGT 3660 International Business

- **Certificate - Specific Requirements** (5 courses)

Economics & Management

ECON 4350 International Economics

MGT 4070 International Finance

MGT 4335 International Marketing

MGT 3661 Advanced Concepts in International Business (or substitute)

International Affairs

INTA 3301 International Political Economy (or substitute)

Recommended Experiences

Membership in AIESEC

Summer overseas or business internship overseas

Course Substitutions

Students are advised to complete the certificate as indicated above. If a student would like to suggest an alternate course to a course listed above, he or she should propose this alternate via e-mail to Dr. John McIntyre, Professor in the Scheller College of Business at John.McIntyre@scheller.gatech.edu. Please include your full name, GTID, and a brief justification for the substitution. Courses proposed for substitution should have significant International content and predominantly focus on global issues involving business, economics, trade, negotiations, political economy, regional studies (Asian, Latin American, European, etc.), technology transfer, or gender & ethnicity. Courses taken abroad can be considered for substitution as well.

Prerequisite Modification - Acknowledged without concern

MGT 3660: International Business

Remove MGT 3150 as a prerequisite for MGT 3660.

Back in the fall of 2007 (see Nov 7, 2007 minutes), at the request of the CoB faculty, the IUCC agreed to remove MGT 3101 (Organizational Behavior) as a prerequisite for MGT 3660 (International Business). MGT 3150 (Principles of Management) and MGT 3101 (Organizational Behavior) are considered equivalent courses and students may not receive credit for both. MGT 3150 is still listed as a prerequisite for MGT 3660 in the course catalog. This is causing a great deal of confusion for the business students. MGT 3150 does not meet the degree requirement for a BSM or a BSBA degree. MGT 3150 is a course designed specifically for non-majors and CoB majors are restricted from registering for this course.

Administrative Matters

1. Correction of error for BSALIS – Russian concentration proposal from January 15, 2013. All the current BSALIS concentrations have a requirement of 6 hours Language Acquisition and 15 hours ML electives. The BSALIS – Russian concentration proposal had an error in it that had these two requirements listed as 3 hours Language Acquisition and 18 hours ML electives. ML requests that this be corrected and reflected in the 2013 -2014 catalog to be consistent with all the other BSALIS concentrations.

Petitions

2. A motion was made to deny a request for readmission after a second drop. The motion was seconded and approved.

Adjourned,

Reta Pikowsky
Registrar