

**Institute Undergraduate Curriculum Committee
Appeals and Academic Matters (Full Committee)
Tuesday, March 12, 2013**

Present: Agrawal (ChBE), Senf (LCC), Smith (ME), Economou (ARCH), Forman (CoB), Goodisman (BIOL), Sankar (AE), Wilkinson (CHEM), Isbell (CoC), Hollengreen (ARCH)

Visitors: Laros (REG), Merkousko (REG), Shinzato (ML), Clarke (CoB), Evanuk (OIE/IP), Llewellyn (CETL), Budd (ID)

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 Modern Languages for new courses. The motion was seconded and approved.

New Courses: **Approved**

JAPN 4183: Japanese Culture and Society through Songs 3-0-3

Note: Transcript title was changed from: JAPN CULT/SOC THRU SONGS to JAPN CUL/SOC THRU SONGS

Note: This course was not submitted to the ICC website as requesting an attribute, but the NCP has Humanities marked as being requested. The NCP will be updated and reloaded to remove the Humanities request on the form.

CHIN 4022 : Kungfu Fiction 3-0-3

Note: Transcript title was changed from: KUNGFU FICTION/POP CULT to KUNGFU FICTION/POP CUL

2. A motion was made to acknowledge without concern a request from the School of Chemical and Biomolecular Engineering for prerequisite modifications. The motion was seconded and approved.

Prerequisite Modifications: **Acknowledged**

Course Number	Course Title	Current Prerequisites	Proposed Prerequisites
CHBE 2130	Chem Eng Thermo I	CHBE 2100 with a minimum grade of D AND BIOL 1510 with a minimum grade of D (concurrency allowed) AND CHBE 2120 co-requisite	CHBE 2100 minimum grade of C AND BIOL 1510 minimum grade of D (concurrency allowed) (remove co-req)
Course Number	Course Title	Current Prerequisites	Proposed Prerequisites
CHBE 3130	Chem Eng Thermo II	CHBE 2120 minimum grade of D AND CHBE 2130 minimum grade of D AND MATH 2401 minimum grade of D AND MATH 2403 minimum grade of D.	CHBE 2120 minimum grade of C AND CHBE 2130 minimum grade of C OR CHBE 2110 minimum grade of C AND MATH 2401 minimum grade of C OR MATH 24x1 Minimum grade of C AND MATH 2403 minimum grade of C OR MATH 24X3 Minimum grade of C.
Course Number	Course Title	Current Prerequisites	Proposed Prerequisites
CHBE 3200	Transport Processes I	CHBE 2110 C AND CHBE 2120 C AND (MATH 2401 C AND (MATH 2403 C OR MATH 24X1) C OR MATH 24X3) C AND PHYS 2211 D	OR CHBE 2110 C CHBE 2130 C AND CHBE 2120 C AND (MATH 2401 C AND (MATH 2403 C OR MATH 24X1) C OR MATH 24X3) C AND PHYS 2211 D
Course Number	Course Title	Current Prerequisites	Proposed Prerequisites
CHBE 3210	Transport Processes II	CHBE 3110 C AND CHBE 3200 C	OR CHBE 3110 C CHBE 3130 C AND CHBE 3200 C
Course Number	Course Title	Current Prerequisites	Proposed Prerequisites

CHBE 3225	Separations Processes	AN CHBE 3110 D CHBE 3200 AN CHBE 3210 D	Y C	OR CHBE 3130	CHBE 3110 CHBE 3200 CHBE 3210	C C C Y C
Course Number	Course Title	Current Prerequisites		Proposed Prerequisites		
CHBE 4300	Kinetics and Reactor Design	AN CHBE 3110 D CHBE 3200 AN CHBE 3210 D	Y C	OR CHBE 3130	CHBE 3110 CHBE 3200 CHBE 3210	C C C Y C

In April 2011 the CHBE curriculum was modified to replace CHBE 2110 with CHBE 2130 and CHBE 3110 with CHBE 3130. The intent is to keep the prerequisites of the new courses the same as the prior courses, so these modifications are updates to match what had previously been in place. It is the policy of the CHBE school to require a minimum grade of C or higher in all core CHBE courses, and the prerequisites must reflect this.

In addition, subsequent course prerequisites are updated to include both the new and old course numbers while students on older catalog years' work their way through the new curriculum.

3. A motion was made to approve a request from the Center for the Enhancement of Teaching and Learning (CETL) for re-approval of existing courses. The motion was seconded and approved.

Current CETL courses: Re-Approved

- CETL 2000 Undergraduate TA Prep
- CETL 2001 Fund of Peer Tutoring
- CETL 3000 Residence Life Seminar (conditional on revising learning objectives)
- CETL 4801 Special Topics
- CETL 4802 Special Topic
- CETL 4803 Special Topic

Note: CETL requested that they also be allowed to ask the Registrar's Office at a later time to have CETL 2801/2/3 built, if needed. This request was also approved since CETL

4801/2/3 currently exists and the Committee felt that this was a logical extension of the course numbers and that no further official proposals would be needed.

A Provost Curriculum Committee was established to review course proposals that are submitted by nonacademic units. This new procedure was approved by the Curriculum Committees last spring, but it took some time for the creation of the Provost Curriculum Committee to occur and for that group to begin meeting and handling proposals. Due to these timing issues, the sequencing of the process was interrupted. This means that there has been some re-evaluating or re-affirmation for current courses through the Provost Committee and back to the Institute Curriculum Committee. In the future, all such requests would go from the unit making the request, to the Provost Curriculum Committee, to the appropriate Vice Provost (Dr. Cozzens for Graduate, Dr. Potts for Undergraduate) and then to the Institute Curriculum Committee.

4. A motion was made to **approve** a request from the College of Business for new courses. The motion was seconded and approved.

New Courses: **Approved**

MGT 3605: Principles of Commercial Law 3-0-3

Note: Transcript title was changed from: PRINCIPLES OF COMMER LAW to PRINS OF COMMERCIAL LAW

MGT 4401: Supply Chain Modeling 3-0-3

Note: Course was proposed as MGT 4357 but changed to MGT 4401 to match the Jointly listed version of MGT 6401

MGT 3662: Management in the Healthcare Sector 3-0-3

Note: Transcript title was changed from: MANAGEMENT OF HEALTHCARE to MGT IN HEALTHCARE SECTOR

5. A motion was made to **approve** a request from the College of Sciences for a new subject code. The motion was seconded and approved.

New Subject Code: **Approved**

COS

The College of Sciences requests the use of the COS prefix on course numbers for cross-disciplinary science courses intended for all CoS majors. An example of a course that would have this designation would be the Resources for Future Scientists course (currently BIOL/CHEM/EAS/PHYS/MATH 2801). Currently, both CoA and CoE utilize similar prefixes for their introductory cross-disciplinary courses.

Note: This approval is limited. Approval is granted for the College of Sciences to propose new courses using the COS subject code prefix, but it is not granted for Special Topics courses. If COS wishes to use the COS prefix for Special Topics courses, it will have to bring a formal request back through the Committee.

6. A motion was made to **approve** a request from the Office of International Education, International Plan for an update to the IP list. The motion was seconded and approved.

Georgia Tech's catalog contains a list of courses approved by the International Plan Committee (IPC) to satisfy International Plan (IP) globally-focused course requirements. These IP students choose one course from each of three categories: International Relations, Country/Region, and Global Economics, to satisfy these requirements. Periodically, the committee approves new courses for the list or removes courses from the list. We are asked to inform the UCC when changes to the list occur. Please see below for a list of courses which were approved by the IPC between September and December 2012 to satisfy the listed category and which are scheduled to be added to the IP's catalog list. Course outlines are attached for your reference.

- I. International Relations Category
 - a. HTS 2100 Science, Technology and the Modern World
 - b. HTS 3055 Globalization in the Modern Era
 - II. Country/Regional Category
 - a. HTS 2040 History of Islamic Societies
 - b. HTS 2041 History of the Modern Middle East
 - c. HTS 3030 Medieval Europe
 - d. HTS 3046 Science and Technology in Nazi Germany
 - e. HTS 3051 Women in the Middle East
 - f. HTS 3069 History of Cuba
 - g. CHIN 3692 Business Chinese
 - h. CHIN 3696 Economic Development and Sustainability in China
 - III. Capstone Course – International Plan
 - a. History, Technology, and Society: HTS 4091 Seminar in Global Issues
7. A motion was made to **approve** a request from the School of Industrial Design for new courses, a new minor, and a degree modification. The motion was seconded and approved.

Degree Modification: Approved
Bachelor of Science in Industrial Design

The overall Program credit count will be reduced from 131 credit hours to 130 credit hours. The total number of Institute required credits hours remains the same at 63 while the total number of BSID Major required credit hours drops by one from 68 to 67. The revised curriculum allows the students greater flexibility in developing an area of specialty to better

support individual career goals and objectives. The proposed curriculum revisions will help develop and support focused design strengths in curriculum and research in three priority areas by leveraging existing ties to technical strengths across the campus.

These areas include:







- **Design for Health & Well-Being** (builds ties to CATEA, iPat, SimTigrate Lab, and the Aware Home)
- **Interactive Product Design** (builds ties to Interactive Computing, GVU, the Aware Home, and the SimTigrate Lab)
- **Product Development & Innovation** (builds ties to Mechanical Engineering, and the Digital Fabrication Lab)

Proposed BSID Program:

The major changes include:

1. The addition of 4 new core courses (highlighted in blue)
2. A reduction of Junior and Senior Studios from 5 cr to 4 cr (will now only run Monday & Wednesday)
3. An overall reduction in required credit count from 131 to 130

Notes:

-  **Reduced credit count in Studios – Studios now focus on integration of knowledge and skills in project context + Syllabi revised to reflect changes (NCP attached)**
-  **Specialized course content has been moved to a new series of required core courses to enhance rigor and consistency (Approved previously)**
-  **Courses remain in curriculum but have been relocated within the curriculum to accommodate priority course revisions**
-  **Existing courses changed from required to elective**
-  **Additions * adjustments to required curriculum as noted**
-  **Deletions from curriculum as noted**

First Year - Fall: Common Freshman Year

• COA 1011 Fundamentals I	3	
• COA 1060 Introduction to Design I	3	
• English Comp I	3	
• History 2111	3	(Move from spring yr.1)
• Calculus I	4	
Total	16	

First Year - Spring: Common Freshman Year

• COA 1012 Fundamentals II	4	
• English Comp II	3	
• CS 1315	3	(Move from fall yr.1)
• Wellness	2	
• Calculus II	4	
Total	16	

Second Year - Fall:

• ID 2021 (ID Studio)	4	(updated curriculum)
• ID 3103 Computing I	3	
• ID 2401 Visual Design Thinking	3	(New - approv'd 2011)
• ID 2202 History of ID	3	(Move from spring yr.2)
• Social Science Elective	3	(Moved to spring yr.4)
• Intro Physics I	4	
Total	17	

Second Year – Spring

• ID 2022 (ID Studio)	4	(updated curriculum)
• ID 3104 Computing II	3	
• ID 2320 Human Factors	3	(New - approv'd 2011)
• COA 2242 Art History II	p3	
• Tech Communications	2	(Delete)
• Lab Science	4	
Total	17	

Proposed BSID Program:

Third Year – Fall

• ID 3xxx (Jr. Studio)	4	(New - 5 cr to 4 cr)
o Choice of:		
ID 3031 Health Design Studio		
ID 3041 Product Dev Studio		
ID 3051 Interactive ID Studio		
• ID 3301 Materials I	3	
• ID 4201 Research Methods	3	(Change to elective)
• ID Elective	3	
• ID 3320 Design Methods	3	(New - approved 2011)
• Social Science Elective	3	
Total	16	

Third Year – Spring

- ID 3xxx (Jr. Studio) 4 (New - 5 cr to 4 cr)
 - Choice of:
 - ID 3032 Health Design Studio
 - ID 3042 Product Dev Studio
 - ID 3052 Interactive ID Studio
- ID 3302 Materials II 3
- ID 4206 Culture of Objects 3 (New - approved 2011)
- ID Elective 3
- Free Elective 3
- **Total 16**

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Fourth Year – Fall

- ID 4xxx (Sr. Studio) 4 (New - 5 cr to 4 cr)
 - Choice of:
 - ID 4061 ID Capstone Des. Studio
 - ID 4071 Invention Studio
 - ID 4081 ID/ME Colab Des Studio
- ID Elective 3 (Add Specialization)
- Social Science Elective 3
- ~~COA History Elective 3 (delete from core + replace with Human-Cr in Spr yr 4)~~
- Free Electives 6 (5 cr to 6 cr from Fall)

- Total 16**

Fourth Year – Spring

- ID 4xxx (Sr. Studio) 4 (New - 5 cr to 4 cr)
 - Choice of:
 - ID 4062 ID Capstone Des. Studio
 - ID 4072 Invention Stud
 - ID 4082 ID/ME Collab Des Studio
- ID Elective 3
- Humanities Elective 3 (to replace COA 2241)

		Art History I)
• Social Science Elective	3	(Move from Fall yr.2)
• Free Electives	3	(5 cr to 3 cr)

Total **16**

Total Program Credits **130 (Overall reduction
131 to 130)**

All new course proposals below pertain to curriculum adjustments to Studio Courses to accommodate the revisions to the core curriculum. Junior Studios (3xxx) and Senior Studios (4xxx) have been reduced from 5 credit hours to 4 credit hours. The Junior Studio Curriculum has been restructured to provide students with a choice of three areas of specialty to allow curriculum decisions tailored to individual career goals and objectives. The Senior Studio Curriculum complements the selection of an area of specialty by providing students with an opportunity to reinforce their understanding and experience of design in Interdisciplinary Collaboration, Invention & Entrepreneurship and/or Research, Design & Development.

New Courses: Approved

ID 2021: Industrial Design Studio 1	0-12-4
ID 2022: Industrial Design Studio 2	0-12-4
ID 3031: Health Design Studio 1	2-6-4
ID 3032: Health Design Studio 2	2-6-4
ID 3041: Product Development Studio 1	2-6-4
ID 3042: Product Development Studio 2	2-6-4
ID 3051: Interactive Product Design Studio 1	2-6-4
ID 3052: Interactive Product Design Studio 2	2-6-4
ID 4061: ID Capstone Design Studio 1	2-6-4
ID 4062: ID Capstone Design Studio 2	2-6-4
ID 4071: Invention Studio 1	2-6-4
ID 4072: Invention Studio 2	2-6-4
ID 4081: ID/ME Collaborative Design Studio 1	2-6-4
ID 4082: ID/ME Collaborative Studio 2	2-6-4

Note: The Committee discussed the use of the numbers 1 and 2 in reference to the Studio classes. These titles make the courses appear to be sequence courses and they are not. The Studio 1 classes are planned to be taught in the Fall and the Studio 2 are planned to be taught in the Spring, but this planning teaching pattern could occasionally change due to availability of specific faculty in a given term. The committee requested that the naming of these studios be re-evaluated and see if a better identifying pattern could be made. Although several suggestions were discussed, no one naming pattern was decided on. The Registrar's Office will work will ID on the official course titles.

New Minor: Approved

Minor in Industrial Design

The program is aimed at undergraduates who are interested in expanding their knowledge in design. We expect undergraduates to understand the industrial design techniques and skills and apply them in multidisciplinary design projects. The students will take four required courses and one elective. The four required courses cover the basics of Industrial Design: one course covers the theory of human factors (physical and cognitive attributes of people), the second covers visual design thinking (graphical communication), the third covers design methods, and the fourth is a studio experience where students work on multidisciplinary teams to solve design problems. An additional elective is required covering other topics in Industrial Design to broaden the scope of the student's experience.

In accordance with Institute guidelines, the minor requires a minimum of 15 hours, including 9 hours at 3xxx or above. All hours must be outside the student's major. The curriculum includes foundational courses in Industrial Design, core courses in the minor's field of study, and one or more courses focusing on advanced topics or their application in relevant problem domains. If any of the minor courses listed below are required by the students' major, the student should substitute an additional elective course in its place. The minor is not available to majors in Industrial Design.

Prerequisites

In order to ensure students in our BSID major have priority access to the courses in our curriculum, the School of Industrial Design has set the completion of the Common Freshman Year Studios as prerequisites for the majority of the ID Studios and lecture-based courses beginning at the sophomore level. It has been the practice, for many years, in the School of Industrial Design to provide individual course permits for non-majors interested in taking specific ID courses. This system works well for us and we are proposing to leverage this same approach to accommodate the limited numbers we are proposing to admit to the ID Minor as per the enrollment forecasts (10 students per semester).

Accordingly we will advise all students interested in the minor that they must contact our Academic Advisor to arrange access to all courses in the ID Minor.

Required courses (4 core courses)

- ID 2320 Human Factors (current prerequisites - COA 1012)
- ID 2401 Visual Design Thinking (no prerequisite)
- ID 3320 Design Methods (current prerequisites - ID 2012, ID 2401, ID 2320)
- ID 4833 Design Workshop: Collaborative application of design process to multidisciplinary problems by a team (no prerequisites)

Electives (one of the following)

- ID 3301 Materials I (Sustainable Design) (no prerequisites)
- ID 3302 Materials II (Non-renewable Materials) (no prerequisites)
- ID 3510 Intro to Interactive Products (current prerequisites - COA 1012)
- ID 3520 Tangible Interaction (current prerequisites - ID 2012)
- ID 4106 Parametric Product Modeling (current prerequisites - ID 3104)
- ID 4201 Design Research Methods (no prerequisites)
- ID 4206 Culture of Objects (current prerequisites - ID 2202)
- ID 4210 Intro Universal Design (current prerequisites - ID 2012)
- ID 4320 Prototyping Interaction (current prerequisites - ID 3510)

The curriculum will be delivered at the Atlanta campus of the Georgia Institute of Technology. Most courses are lecture-type classes. Several of the courses, including ID 2401, ID 3320 ID 3510, ID3520, ID 4106, ID 4210, and ID 4320, have hands-on experiences such as sketching, building and testing products. ID 4833 is a studio class, where students work on multidisciplinary teams to solve design problems and prototype their solutions.

Note: Committee members expressed concern about minors requiring courses that have prerequisites. If prerequisites do exist, they should be clearly indicated so that the students really understand what completion of that minor actually entails. For minors that have a long list of possible elective, this can be particularly confusing and there have been issues in the past with the information being both clear and accurate. The net issue is that the IUCC wants the greatest amount of transparency possible in the way in which required courses for the minor are described. If the required courses have prerequisites, these facts have to be made clear.

In this particular case, the issue arose due to Industrial Design's use of their prerequisites as a funnel to keep their ID students on track to take courses in a certain pattern. The School of Industrial Design does not want to remove or change its prerequisite system. To deal with the issue of clarity, or lack thereof, about its prerequisites in regard to this minor the School proposes to advise carefully and permit students into the minor required courses (waiving the prerequisites for them). The selection of elective courses would be facilitated by the students working closely with the advisors and then being permitted into those classes.

Students would have to work with the advisors on the elective courses because some of them require at least some level of background, which is why the prerequisite exist in those cases, but in other cases the prerequisite serves only a "funneling" purpose and can actually be waived.

The concerns of the Committee were in relation to students being able to get into the classes, having them not be at a disadvantage if the prerequisites were waived, and having all of this be as transparent as possible.

The School feels that these things can be managed and that students can be advised properly and be successful in the minor. However, it was suggested that a meeting be arranged with the Vice Provost and the Registrar's Office to talk about this in more detail to make certain that a level of comfort is achieved and that a viable plan is in place to ensure the success of this minor and the students in it.

Adjourned,

Ann Laros

for

Reta Pikowsky

Registrar