

**Institute Undergraduate Curriculum Committee
Appeals and Academic Matters (Full Committee)
Tuesday, April 19, 2011**

Present: Riley (ECE), Pikowsky (REG), Montoya (BIOL), Loss (MATH), Senf (LCC), Isbell (CoC), Hollengreen (ARCH), Chang (MGT), Belton (ECON), Agrawal (ChBE), Benkeser (BMED), Bottomley (CHEM) Paredis (ME)

Visitors: Laros (REG), Howson (REG), Paraska (VPFAD), Hoffmann (PUBP), Budd (ID), Green (BIOL), Parson (MGT), Steinbart (MATH), Llewellyn (CETL)

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 subcommittee with representatives from both the Undergraduate and Graduate Curriculum Committees met recently to discuss issues surrounding requests from non-academic units to teach courses for academic credit. The subcommittee created a draft policy, that was shared with the Director of CETL (Dr. Llewellen). Dr. Llewellen attended the meeting to address specific aspects of CETL's organization and plans for faculty oversight of its courses. Based on input from Dr. Llewellen, it was decided that the subcommittee will be reconvened as soon as possible to further consider the issues and to formulate recommendations for moving forward.
2. A motion was made to approve a request from the School of Economics for two new courses. The motion was seconded and approved.

ECON 4180: Game Theory 3-0-3
ECON 4415: Security and Conflict in Developing Countries 3-0-3

Note: The grading mode at catalog level for the above two courses will be pass/fail, letter/grade, and audit.

ECON 4415 was requested to satisfy the Global Perspectives requirement under the new Core Curriculum, effective Fall 2011. Once approved by the Senate, this course will have to be presented to the General Education Council for inclusion on the list of courses that meet the Global Perspectives overlay requirement at Tech.

3. A motion was made to approve a request from the School of Industrial and Systems Engineering for a new course. The motion was tabled.

ISYE 4311: Capital Investment Analysis 3-0-3

No representative from ISYE was at the meeting to discuss the item. The Committee asked the Registrar to follow up with the School and suggest that other academic units such as the College of Management be consulted to determine any content overlap that needs to be addressed. This item will be placed on the next agenda for action.

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

ID 2320: Human Factors	3-0-3	
ID 2401: Visual Design Thinking	3-0-3	
ID 3201: Design and Community		3-0-3
ID 3320: Design Methods		3-0-3
ID 3510: Interactive Projects	3-0-3	
ID 3520: Tangible Interaction	3-0-3	
ID 4105: Adv Modeling Concepts		3-0-3
ID 4106: Parametric Product Model		3-0-3
ID 4206: Culture of Objects		3-0-3
ID 4320: Prototyping Interaction	3-0-3	
ID 4450: Portfolio Development		3-0-3
ID 4510: Wearable Product Design		3-0-3

Note: The NCP for ID 4510 will be updated and reloaded to the IUCC site to reflect that the prerequisite for this course is ID 3510.

5. A motion was made to approve several requests from the School of Chemical and Biomolecular Engineering for 1) new courses; 2) a modification to the existing Bachelor of Science in Chemical and Biomolecular Engineering, Standard and Biotechnology Option. The motion was seconded and approved. The motion to revise the grading policy for ChBe student was tabled.

NEW COURSES:

CHBE 2130: Chemical Engineering Thermodynamics I	2-0-2
CHBE 3130: Chemical Engineering Thermodynamics II	3-0-3
CHBE 4510: Process and Product Design And Economics	2-0-2
CHBE 4520: Chemical Engineering Capstone Design Project	0-6-2
CHBE 4530: Chemical Engineering Capstone Design	0-6-2

DEGREE MODIFICATION:

Bachelor of Science in Chemical and Biomolecular Engineering
Standard and Biotechnology Option

Deletion of four courses (ChBE 2110, ChBE 3110, ChBE 4505, ChBE 4525) and addition of five courses (ChBE 2130, ChBE 3130, ChBE 4510, ChBE 4520, and ChBE 4530). Total

number of credit hours required for the B.S.ChBE degree remains unchanged at 132 credit hours. Below is a summary of the changes:

(i) A reduction in the Thermodynamics courses sequence from 6 credit hours to 5 credit hours. Thus ChBE 2110 (3) and ChBE 3110 (3) are being replaced by ChBE 2130 (2) and ChBE 3130 (3).

(ii) An increase in the Capstone Design course from 3 credit hours to 4 credit hours. In addition, we are splitting it into two separate courses (2 credit hours each) as below.

Standard Option- ChBE 4505 (3) is replaced by ChBE 4510 (2) and ChBE 4520 (2).

Biotech Option- ChBE 4525 (3) is replaced by ChBE 4510 (2) and ChBE 4530 (2).

(iii) ChBE 4510 will be a co-requisite for ChBE 4520 and ChBE 4530. Currently, the students take the contents of both courses together in a single course (ChBE 4505 or 4525). However, splitting these into two courses would allow the students to take these classes together or they may choose to take ChBE 4510 before taking ChBE 4520 or ChBE 4530.

The increase in the number of credit hours for the capstone design course reflects the work load associated with this course. Splitting it into two courses was done in order to provide greater flexibility to the students in scheduling their classes and balancing their course load better.

REVISIONS TO CURRENT GRADING POLICY - Tabled

A proposal from ChBE was presented that would enforce a limit of three on the total number of ChBE courses earning a grade of F, D, or W. Once a student received a fourth grade of F, D, or W, the student would be dismissed from the ChBE program. A very in-depth discussion occurred in regard to this proposal. The Committee made suggestions for how the current proposal might be amended to better address the concerns, but not create other issues in the process. Of particular concern was the “W” grade limitation. The Committee suggested in the end that ChBE continue its discussion, given the Committee’s input, and resubmit the proposal for a future meeting.

The Committee also discussed what the proper approval procedure would be for this type of proposal. The initial decision regarding this proposal was that it would be added to the agenda as an informational item to accompany the Degree Modification request. It is generally accepted that School or College requirements may be stricter than Institute-level requirements for a program. However, in the past, it has been unclear as to how much more restrictive a School or College can be, specifically in relation to a student’s standing in that particular program.

Institute rules and regulations address a student’s standing in relation to required minimum GPAs by class standing, but do not address in any detail additional stipulations that a School or College may apply to their majors. The Committee debated whether this proposal makes sense in relation to the absence of specific guidelines at the Institute-level as to good standing

in specific program where suspension from that program would mean that the student's only option to remain at Tech would be to change majors and be accepted by another School.

Given the level of concern expressed by Committee members, it was decided that such proposals in the future will have to be submitted with all proper signatures and not as informational items.

There was also some discussion as to whether guidelines at the Institute-level need to be put into place to inform these types of proposals in the future or whether there are different and perhaps better ways for Schools to address such concerns. Recent discussions about transfer admission policies and strategies might also come into play in the future.

Details of Current and Proposed Policies

The revisions would further define the maximum number of D, W, or F grades that can be accumulated in the core ChBE courses required for a B.S. degree in Chemical & Biomolecular Engineering.

The current ChBE "D" Policy is as follows:

- **You must earn a "C" or higher in ChBE 2100 before enrolling in ChBE 2110 and ChBE 2120.**
- **You must repeat any 2000 level ChBE course for which you received a "D" grade before moving to the 3000 level.**
- **You must earn a "C" or higher in ChBE 3100 and ChBE 3200 before enrolling in ChBE 3210, ChBE 3225, and ChBE 4300.**
- **You must repeat ChBE 3210, ChBE 3225, and ChBE 4300 if you received a "D" grade before taking any course for which they are a prerequisite.**
- **ChBE students must earn a "C" or higher in all math courses. If you receive a "D," you MUST repeat that course before moving to the next level math course.**

The following statements would be added to the existing policy:

- A maximum number of the combination of D, W, or F grades that may be allowed in core ChBE classes is three (3).
- To assist students, a reminder of the School policy will be sent to any student who accumulates a total of 2 D, W, or F grades (any combination) in the core ChBE classes. This will be done in the third week of the semester, after having reached this point in the preceding term. The list will be shared with the ChBE faculty, so individual faculty members may contact their student mentees for counseling.
- After a student has reached the maximum number of 3 D, W, or F grades in the core ChBE classes, the student would be notified of the probationary status in the third week of the following semester. A one-on-one meeting will be required to be held between the Associate Chair and the student to discuss the steps for successful completion of the program and alternate options.
- If an additional (a fourth) D, W, or F grade is accumulated, the student will be suspended from the B.S. in ChBE program.

- A petition mechanism will be in place for all students who are suspended from the B.S. in ChBE program. Medical grounds and/or special family situations will be particularly taken into consideration for the petition.

The following list constitutes core ChBE classes:

- Standard Option: ChBE 2100, ChBE 2120, ChBE 2130, ChBE 3130, ChBE 3200, ChBE 3210, ChBE 3225, ChBE 4200, ChBE 4300, ChBE 4400, ChBE 4510, ChBE 4515, and ChBE 4520,
 - Biotech Option: ChBE 2100, ChBE 2120, ChBE 2130, ChBE 3130, ChBE 3200, ChBE 3210, ChBE 3225, ChBE 4210, ChBE 4300, ChBE 4310, ChBE 4400, ChBE 4510, ChBE 4515, and ChBE 4530.
6. A motion was made to approve a request from the School of Public Policy for new courses and deactivation of courses. The motion was seconded and approved.

NEW COURSES:

PHIL 2010: Introduction to Philosophical Analysis	3-0-3	
PHIL 2025: Philosophical Analysis of Policy Choices		3-0-3
PHIL 3050: Political Philosophy	3-0-3	
PHIL 3102: Ancient Philosophy		3-0-3
PHIL 3103: Modern Philosophy		3-0-3
PHIL 3105: Ethical Theories	3-0-3	
PHIL 3109: Engineering Ethics	3-0-3	
PHIL 3113: Logic and Critical Thinking		3-0-3
PHIL 3115: Philosophy of Science	3-0-3	
PHIL 3127: Science, Technology, and Human Values		3-0-3
PHIL 3790: Introduction to Cognitive Science		3-0-3
PHIL 4110: Theories of Knowledge		3-0-3
PHIL 4174: Perspectives in Science and Technology		3-0-3
PHIL 4176: Environmental Ethics	3-0-3	
PHIL 4752: Philosophical Issues in Computation	3-0-3	
PHIL 2698: Research Assistantship	3-0-3	
PHIL 2699: Undergraduate Research		3-0-3
PHIL 4698: Research Assistantship	3-0-3	
PHIL 4699: Undergraduate Research		3-0-3
PHIL 4790: Seminar Cognitive Science		3-0-3
PHIL 4803: Special Topics	3-0-3	
PHIL 4811: Special Topics	3-0-3	
PHIL 4812: Special Topics	3-0-3	
PHIL 4813: Special Topics	3-0-3	
PHIL 4814: Special Topics	3-0-3	
PHIL 4815: Special Topics	3-0-3	
PHIL 4901: Special Problems	3-0-3	
PHIL 4902: Special Problems	3-0-3	
PHIL 4903: Special Problems	3-0-3	

PHIL 1XXX: Philosophy Elective	3-0-3
PHIL 2XXX: Philosophy Elective	3-0-3
PHIL 3XXX: Philosophy Elective	3-0-3
PHIL 4XXX: Philosophy Elective	3-0-3

DEACTIVATE COURSES:

- PST 1101 - Introduction to Philosophical Analysis
- PST 2020 - Philosophical Analysis of Policy Choices
- PST 2698 - Research Assistantship
- PST 2699 - Undergraduate Research
- PST 3050 – Political Philosophy
- PST 3102 - History of Ancient Philosophy
- PST 3103 - Modern Philosophy
- PST 3105 - Ethical Theories
- PST 3109 - Ethics and Technical Professions
- PST 3113 – Logic and Critical Thinking
- PST 3115 - Philosophy of Science
- PST 3127 - Science, Technology, and Human Values
- PST 3790 – Introduction to Cognitive Science
- PST 4110 - Theories of Knowledge
- PST 4112 - Philosophic Themes Asian Thought
- PST 4174 - Perspectives in Science and Technology
- PST 4176 - Environmental Ethics
- PST 4698 - Research Assistantship
- PST 4699 - Undergraduate Research
- PST 4752 - Philosophical Issues in Computation
- PST 4790 – Seminar Cognitive Science
- PST 4791 - Integrative Project Cognitive Science
- PST 4792 - Design Project Cognitive Science
- PST 4803 - Special Topics
- PST 4811 - Special Topics
- PST 4812 - Special Topics
- PST 4813 - Special Topics
- PST 4814 - Special Topics
- PST 4815 - Special Topics
- PST 4901 - Special Problems
- PST 4902 - Special Problems
- PST 4903 - Special Problems
- PST 1XXX - Philosophy, Science, and Technology Elective
- PST 2XXX - Philosophy, Science, and Technology Elective
- PST 3XXX - Philosophy, Science, and Technology Elective
- PST 4XXX - Philosophy, Science, and Technology Elective

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

DEGREE MODIFICATION: Bachelor of Science in Discrete Mathematics

- Add CS 4540 Advanced Algorithms (3 hours) to the list of Technical Electives.
Justification: The topics in CS 4540 Advance Algorithms are consistent with the Discrete Mathematics program. CS 4540 has prerequisite CS 3510 Design and Analysis of Algorithms or CS 3511 Honors Design and Analysis of Algorithms. BSDMTH requires CS 3510 or CS 3511.
- Replace requirement of CS 1050 (3 hours) with CS 2050 or CS 2051 (3 hours).
CS 2050: Introduction to Discrete Mathematics for Computer Science 3-0-3
CS 2051: Honors – Introduction to Discrete Mathematics for Computer Science 3-0-3
- Previously approved by the IUCC CS 1050 will be added to the NCP as an equivalent course to both CS 2050 and 2051.
Justification: CS is replacing CS 1050 with CS 2050 or CS 2051. CS 2050/51 provides sufficient background in discrete mathematics and algorithmic exposure for CS 3510/3511. DMTH requires the course CS 3510 or CS 3511. The prerequisite for CS 3510 and CS 3511 is CS 2050 or CS 2051.

8. A motion was made to approve a request from the School of Materials Science and Engineering for a minor modification. The motion was seconded and approved.

MINOR MODIFICATION: Materials Science and Engineering

<u>Current Program of Study</u>	<u>Proposed Program of Study</u>
18 hours of MSE courses with at least 12 hours being at the 3000 level or higher.	15 hours of MSE courses with at least 12 hours being at the 3000 level or above.

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

DEGREE MODIFICATION: Bachelor of Science in Computer Science – Information Internetworks Thread

- DELETE all of the sub-categories from the *Pick 1 from Advanced Information Management* pick list of courses
- DELETE the *Management of Information* cluster of courses

The *Information Internetworks Thread* faculty recommended that the current structure was confusing and convoluted, which resulted in a confusing experience for students. Also, the *Management of Information* cluster of courses was difficult to consistently offer to students, because the courses are in the school of management.

- The *Pick 1 from Advanced Information Management* pick list will no longer include the *Introduction to Information Management, Database Systems, Enterprise Computing, Network Systems* course sub-clusters. The courses in this pick list will be aggregated under the *Advanced Information Management pick list*

Degree Modification:

Bachelor of Science in Biology - Research Option

Allow 4690 to be used as an approved research course for the Research Option

The rationale is that our current research option concludes with BIOL 4910, which has a prerequisite GPA of 3.0. The proposed change permits students who might have a lower GPA but equal commitment to research to earn the Research Option on their degree. The proposed change will permit students to substitute BIOL 4690 for BIOL 4910.

Degree Modification:

Bachelor of Science in Biology (including all options, RO and IP)

Increase the number of approved non-BIOL courses that can be counted as technical electives from 6 to 9 credit hours.

The rationale is to address requests from students to support interdisciplinary science interests by permitting our majors to enroll in up to 9 credit hours of approved non-BIOL technical electives (currently, a defined list of courses from APPH, BMED, CHEM, EAS, LCC, MATH, PHYS, and PSYC). Biology Electives

Twenty-one credit hours must be earned in courses chosen from the electives list. The list includes all Biology courses numbered 3000 or higher other than those that are not required and LCC 4701/2 (Writing and Undergraduate Research Proposal/Thesis). Up to six hours of biology electives can be BIOL 4699 Undergraduate Research. Also, up to nine hours of courses may be outside of biology as specified below. All biology electives must be taken for a letter grade.

All APPH 3XXX and higher courses EXCEPT:

- APPH 3300 Health Promotion
- APPH 3901-3904 Special Problems
- APPH 4698 Research Assistantship
- APPH 4699 Undergraduate Research

All BMED 3XXX and higher courses EXCEPT:

- BMED 4698 Research Assistantship
- BMED 4699 Undergraduate Research
- BMED 4900-4903 Special Problems

All CHEM 3XXX and higher courses EXCEPT:

- CHEM 4601 Chemistry Seminar
- CHEM 4698 Research Assistantship
- CHEM 4699 Undergraduate Research
- CHEM 4901- 4903 Special Problems in Chemistry

All EAS 3XXX and higher courses EXCEPT:

- EAS 4651 Practical Internship
- EAS 4698 Research Assistantship
- EAS 4699 Undergraduate Research
- EAS 4900 Special Problems

LCC:

- LCC 4700 Writing an Undergraduate Thesis
- LCC 4701 Undergraduate Research Proposal Writing
- LCC 4702 Undergraduate Research Thesis Writing

All MATH 2XXX and higher courses EXCEPT:

- MATH 2698 Research Assistantship
- MATH 2699 Undergraduate Research
- MATH 4080 Senior Project I
- MATH 4090 Senior Project II
- MATH 4698 Research Assistantship
- MATH 4699 Undergraduate Research
- MATH 4999 Special Problems

All PHYS 3XXX and higher courses EXCEPT:

- PHYS 4601 Senior Seminar I
- PHYS 4602 Senior Seminar II
- PHYS 4698 Research Assistantship
- PHYS 4699 Undergraduate Research

All PSYC 3XXX and higher EXCEPT:

- PSYC 4600 Senior Thesis I
- PSYC 4601 Senior Thesis II
- PSYC 4698 Research Assistantship
- PSYC 4699 Undergraduate Research
- PSYC 4900-4910 Special Problems

Prerequisite Modifications: Correct inaccuracies in the Catalog prerequisites for 40 Biology courses.

The rationale is to address discrepancies between the current GIT Catalog listings and the current School of Biology requirements for course prerequisites. These discrepancies exist due to a new process in OSCAR whereby course prerequisite listings are now drawn from the GIT catalog rather than the previous semester offering. Historically, our prerequisite modifications had been keyed on an as-needed basis to OSCAR. This proposal ensures that all official records reflect the correct prerequisites.

Course Number	Prerequisites
BIOL 1511	AP20=4 or IBBI=4 or Biol 1520=B or Biol 1521=B
BIOL 1521	AP20=4 or IBBI=4 or Biol 1510=B or Biol 1511=B
BIOL 2335	Biol 1510=D or Biol 1511=D
BIOL 2336	Biol 1510=D or Biol 1511=D
BIOL 2338	Biol 1510=B or Biol 1511=B
BIOL 2355	Biol 1510=B or Biol 1511=B
BIOL 2400	(Math 1502=D or Math 1512=D or Math 1522=D) and (Biol 1510=D or Biol 1511=D)
BIOL 3100	Biol 2100=D w/ concurrency
BIOL 3300	Biol 1510=D or Biol 1511=D
BIOL 3380	(Biol 1510=D or Biol 1511=D) and Chem 2311=D w/ conc
BIOL 3381	(Biol 1510=D or Biol 1511=D) and Chem 2311=D w/ conc

BIOL	3600	(Biol 2344=D or Biol 2354=D) and (Biol 2335=D or Biol 2337=D)
BIOL	3751	Biol 1510=D or Biol 1511=D or Chem 1310=D
BIOL	4015	(Biol 2344=D or Biol 2354=D) and Biol 3340=D
BIOL	4101	Biol 2335=D or Biol 2337=D
BIOL	4150	(Biol 2344=D or Biol 2354=D) and (CS 1321=D or CS 1371=D or CS 1301=D or CS 1315=D)
BIOL	4221	Biol 1510=D or Biol 1511=D
BIOL	4225	Biol 3600=D
BIOL	4340	Biol 3380=D
BIOL	4401	(Math 1502=D or Math 1512=D or Math 1522=D) and (Biol 1510=D or Biol 1511=D)
BIOL	4410	Biol 3380=D
BIOL	4418	Biol 3380=D and Biol 3340=D
BIOL	4422	Math 2403=D or BIOL 2400=D
BIOL	4440	(Biol 1510=D or Biol 1511=D) and (Biol 1520=D or Biol 1521=D)
BIOL	4446	Biol 3340=D
BIOL	4450	Biol 4590=D w/conc or Biol 4690=D w/conc or Biol 4910=D w/conc.
BIOL	4464	(Biol 2344=D or Biol 2354=D) and Biol 3340=D
BIOL	4471	(Biol 1510=D or Biol 1511=D) and (Math 1502=D or Math 1512=D or Math 15X2=D)
BIOL	4478	Phys 2211=D and (Biol 2344=D or Biol 2354=D or Biol 3340=D)
BIOL	4570	Biol 3340=D and (Biol 2344=D or Biol 2354=D)
BIOL	4590	none
BIOL	4608	Biol 2344=D or Biol 2354=D
BIOL	4620	Biol 2335=D or Biol 2337=D
BIOL	4650	Biol 1510=D or Biol 1511=D
BIOL	4668	Biol 2344=D or Biol 2354=D
BIOL	4690	Biol 2698=D or Biol 2699=D or Biol 4698=D or Biol 4699=D
BIOL	4740	Biol 1520=D or Biol 1521=D or Biol 3600=D or Bmed 3100=D or Phys 2211=D
BIOL	4746	(Biol 1510=D or Biol 1511=D) and Chem 2311=D
BIOL	4755	Math 2403=D or BIOL 2400=D
BIOL	4910	Biol 2698=D or Biol 2699=D or Biol 4698=D or Biol 4699=D

Discontinue Cross-listing of Math 4755 and Biology 4755

The rationale is in conjunction with MATH's request to change the prerequisite courses for their section. Both the School of Mathematics and the School of Biology are in agreement that the cross-listed course is no longer benefiting the students, and both Schools are in agreement to separate the course into separate entities operated by each School.

12. ADMINISTRATIVE ITEM:

At the March 22, 2011 IUCC meeting, the School of Mathematics asked for a prerequisite change to Math 4755. This change was approved. Also, in the packet was a section showing the course description as being changed. The description listed as current in the proposal is not the current catalog description and the change was a substantive change of description.

The School of Mathematics took this information to review and will report back to the Committee as to why the description listed on the proposal does not match what is in the current catalog and why there is a new proposed description to change that. A new course proposal form will be needed whatever the case as long as what is in the current catalog is not accurate, and Math wishes to have a different description of this course.

13. ADMINISTRATIVE ITEM:

Correction to Short Title of CS 2050 and CS 2051 from February 8, 2011 minutes.
CS 2050 Short Title listed as: Intro Discmath Comp Sci
Changed to show on transcript as: Intro Discrete Math CS

CS 2051 Short Title listed as: Honors Discmath Comp Sci
Changed to show on transcript as: Honors Discrete Math CS

14. ADMINISTRATIVE ITEM:

The Committee was reminded that it still has to complete its discussion on grade substitution and whether honors sections and non-honors sections may replace each other under this policy. This will be put on the next agenda for discussion.

Petitions

1. A motion was made to approve a written appeal for a waiver of the 36-hour rule. The motion was seconded and approved.
2. A motion was made to deny a written appeal for a waiver of the 36-hour rule. The motion was seconded and approved. A compromise solution was identified and will be offered to the student which would make this waiver unnecessary.
3. A motion was made to deny a request for readmission after a second drop. The motion was seconded and approved.

Adjourned,

Reta Pikowsky
Registrar