

Institute Undergraduate Curriculum Committee Minutes January 14, 2009

Present: Pikowsky (REG), Tone (HTS), Schatz (PHYS), Ferri (ME), Benkeser (BME), Bottomley (CHEM), Isbell (CoC), Seitzman (AE), Kubanek (BIOL), Mihail (CoC), Castro (COA), Winegarden (COA), Barke (PUBP), Chang (MGT), Agrawal (CHBE), Montoya (BIOL)

Visitors: Senft (REG), Jones (REG), Pilsch (CoC), Winders (HTS), Vito (ME/Provost's Office), Nair-Reichert (ECON), Laros (REG)

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.

1. A motion was made to table a proposal from the Office of the Provost presented by Dr. Vito regarding Interdisciplinary Minors. The motion was seconded and approved.

Note: The Registrar's Office will prepare a revised document indicating current guidelines for the minor and proposed language to address the question of courses used for the minor and electives in the major program as they relate specifically to interdisciplinary minors.

2. There were no administrative items on the agenda.
3. A motion was made to approve a request from the School of Chemical and Biomolecular Engineering for changes to the curriculum for the B.S. degree in Chemical and Biomolecular Engineering (standard and biotech options). The motion was seconded and approved.

The proposed revision replaces 3 credit hours of free elective courses with 3 credit hours of ChBE elective courses for both B.S. degrees (standard and biotech options). Thus, the total number of minimum credit hours needed for a B.S. degree in Chemical & Biomolecular Engineering remains unchanged at 132. This curriculum revision is needed to ensure a minimum of 48 credit hours of "Engineering Topics" as required by the ABET criterion 5.

B.S. in Chemical & Biomolecular Engineering (Standard Option)

- Reduce free elective hours from 6 to 3
- Increase ChBE elective hours from 3 to 6

B.S. in Chemical & Biomolecular Engineering (Biotech Option)

- Reduce free elective hours from 6 to 3
- Add 3 hrs. of ChBE elective course

4. A motion was made to approve a request from the College of Architecture for new courses in Building Construction and International Plan participation for the Industrial Design program. The motion was seconded and approved.

NEW COURSES

- BC 4110 Trends & Policies for Residential Development 3-0-3
Note: Prerequisites were removed. Committee noted that BC could handle restrictions on a term by term basis as they open the class for registration each term.
- BC 4120 Community Design & Construction 3-0-3
- BC 4130 Integrated Design, Construction, and Development
Note: The word “course” was removed from the title as it was originally stated. The specific reference to “Atlantic Station” in catalog description was removed. Registrar noted to her staff that there may be a graduate-level version of this course and that needs to be checked and noted in Banner.

INTERNATIONAL PLAN INDUSTRIAL DESIGN

The proposed 8-semester sequence includes the following changes to the existing curriculum for the Bachelor of Science in Industrial Design:

- Third Year Fall SOCIAL SCIENCE ELECTIVE moved to Second Year Spring and modified to fulfill I.P. GLOBAL ECONOMICS COURSE, prior to study abroad.
- COA2241 ART HISTORY I and COA2242 ART HISTORY II moved from Second Year Fall and Spring (respectively) to Third Year Fall and Spring (respectively) to accommodate credit hours for IP language requirement in the Second Year, prior to study abroad.
- Fourth Year Fall free elective reduced from 5 to 2 credits; the 3 remaining credits were moved to the Second Year and applied towards the IP language requirement, LANGUAGE I: 2XXX.
- Third Year Spring INDUSTRIAL DESIGN ELECTIVE moved to Fourth Year Fall, thus replacing the 3 credit hours that were removed from the FREE ELECTIVE requirement in that semester.

- Fourth Year Spring free elective moved to Second Year Spring and applied towards the IP language requirement, LANGUAGE II: 2XXX.
 - LAB SCIENCE requirement moved to Fourth Year Fall from Second Year Spring to accommodate credit hours for IP GLOBAL ECONOMICS COURSE. This changes overall credit hours from 18 to 17 in Second Year Spring.
 - Fourth Year Fall SOCIAL SCIENCE ELECTIVE moved to Fourth Year Spring to accommodate LAB SCIENCE elective. This change increases total credit hours from 14 to 17 in the Fourth Year Spring Semester.
 - Third Year Fall SOCIAL SCIENCE ELECTIVE modified to fulfill I.P. International Relations course requirement during study abroad.
 - Third Year Spring FREE ELECTIVE modified to fulfill I.P. REGIONAL course requirement.
 - Third Year Spring INDUSTRIAL DESIGN ELECTIVE moved to Fourth Year Fall.
 - Third Year Spring ID4202 PROFESSIONAL PRACTICE course moved to Fourth Year Spring Semester, thus reducing total credit hours for Third Year Spring to 14 (from 17) and increasing total credit hours for Fourth Year Spring to 17 (from 14).
 - Fourth Year Spring ID4012 ADVANCED ID II, I.P. students will be required to take a section of the course that has a global awareness focus, used to fulfill I.P. CAPSTONE course requirement.
5. A motion was made to approve a request from the School of Economics for a revision to the Minor in Economics. The motion was seconded and approved.
- Reduction in total hours required from 18 to 15.
 - Reduction in the advanced coursework hours from 12 to 9.
6. A motion was made to approve a request from the School of Biology for a revision to the Minor in Biology. The motion was seconded and approved.
- Reduction in total hours required from 18 to 15.
 - Reduction in the advanced coursework hours from 12 to 9.

Note: The request to remove the limit on including Special Topics course hours was eliminated from the proposal.

7. A motion was made to approve a request from the School of Chemistry and Biochemistry for a course deactivation. The motion was seconded and approved.

DEACTIVATE COURSE

CHEM 1313 Quantitative Analysis

8. A motion was made to approve a request from the School of Chemistry and Biochemistry for two new courses. The motion was seconded and approved.

NEW COURSES

- CHEM 2211 Introduction to Quantitative Analysis 2-3-3
 - CHEM 4684 Advanced Chemistry Laboratory 0-12-4
9. A motion was made to approve a request from the School of Chemistry and Biochemistry for changes to the curriculum as a result of the deactivation of CHEM 1313 and the creation of CHEM 2211 and CHEM 4684. The motion was seconded and approved.
- Modification of curriculum for B.S in Biochemistry (BCHM)
 - Modification of curriculum for B.S in Chemistry (traditional track)
 - Modification of curriculum for B.S in Chemistry (Biochemistry track)
 - Modification of curriculum for B.S in Chemistry (business track)
 - Modification of curriculum for B.S in Chemistry (materials track)
 - Modification of curriculum for B.S in Chemistry (polymer track)
10. The Committee acknowledged and found no concerns with a proposal from the School of Chemistry and Biochemistry for changes in prerequisites.

Proposed NEW pre- and co-requisites

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| CHEM 1311 | prerequisite: CHEM 1310 and corequisite: CHEM 1312 |
| CHEM 1312 | corequisite: CHEM 1311 |
| CHEM 2380 | prerequisites: (CHEM 1312 and CHEM 2311) and prerequisites with concurrency: (CHEM 2312 or CHEM 2313) |
| CHEM 3211 | prerequisite: CHEM 2380 and CHEM 2211 prerequisites with concurrency: CHEM 3411 |
| CHEM 3281 | prerequisites: Phys 2212 and (CHEM 1315 or CHEM 2311) |
| CHEM 3481 | prerequisites: (CHEM 2380 and CHEM 3411) and prerequisites with concurrency: CHEM 3412 |
| CHEM 4521 | prerequisite: CHEM 3411 and CHEM 4511 |

CHEM 4601 prerequisites: CHEM 4512

The first four changes relate to a proposed change in the BS CHEM and BCHM curricula whereby our majors will now be required to take 1312 in concert with 1311, and quantitative analysis is delayed to the second year (with a new course, CHEM 2211 replacing CHEM 1313 – the latter will be deactivated). A separate proposal has been submitted to modify the degree plans. The last four requested modifications better serve our students than the previous prerequisites, and fix some inconsistencies arising at semester conversion, without affecting the sequence of courses taken by students.

11. The Committee acknowledged and found no concerns with a proposal from the School of Public Policy for prerequisite modifications.

Removal of prerequisite for PST/CS 4752 Philosophical Issues in Computation

12. The Committee acknowledged and found no concerns with a proposal from the Center for the Enhancement of Teaching and Learning for prerequisite modifications.

CETL 4001 Principles of Learning and Teaching I and
CETL 4002 Principles of Learning and Teaching II
Change prerequisite from junior standing with a GPA of at least 2.75 to sophomore standing with a GPA of at least 2.5

13. A motion was made to table a request from the School of Industrial and Systems Engineering for new courses. The motion was seconded and approved.

NEW COURSES – TABLED

- ISyE 4035 Regression and Forecasting 3-0-3
- ISyE 4111 Advanced Supply Chain Logistics 3-0-3
- ISyE 4031 Supply Chain Economics 3-0-3

14. A motion was made to approve a request from the College of Computing for a revision to the curriculum for the BS in Computer Science. The motion was seconded and approved.

Changes to the Theory thread as approved in January 2007:

A 4000-level course on theoretical computer science, CS 4540 Advanced Algorithms, has been added to the requirements. This will be the fundamental differentiating course of the Theory thread.

The course CS 3511 Algorithms Honors has been replaced by a choice of either CS 3510 Design and Analysis of Algorithms or CS 3511 Algorithms Honors.

The group CS Applications with Algorithms and Complexity has been removed from the Theory thread requirements to maintain the 126 credit hour degree requirement.

Minor renaming(s) and regroupings have been made to make the course groups more coherent

15. A motion was made to approve a request from the College of Computing for a new course. The motion was seconded and approved.

NEW COURSE

CS 4464 Computational Journalism 3-0-3

16. The Committee acknowledged and found no concerns with a proposal from the College of Computing for prerequisite modifications.

- CS 4520 Approximation Algorithms
Prerequisite: CS 4540 (was CS 3510 or CS 3511)
- CS 4530 Randomized Algorithms
Prerequisite: CS 4540 (was CS 3510 or CS 3511)

17. A motion was made to approve a request from the College of Computing for a correction in the title of a course. The motion was seconded and approved.

CS 4911: Design Capstone Project (last letter omitted in Capstone)

18. A motion was made to approve a request from the Woodruff School of Mechanical Engineering to deactivate courses. The motion was seconded and approved.

DEACTIVATE COURSES

- ME 4055 Experimental Engineering
- ME 4113 Kinematics and Dynamics of Linkages
- ME 4211 Manufacturing Engineering and Process Applications

19. A motion was made to approve a request from the School of History, Technology and Society for new courses. The motion was seconded and approved.

NEW COURSES

- HTS 3087 History of Medicine 3-0-3
- HTS 1000 Science, Technology, and the Modern World 3-0-3
Note: The Committee suggested a number other than “1000” for this course to more accurately reflect the amount of work required for it. The Registrar will work with HTS to select a new number in the 1000-2000 series.

20. A motion was made to approve a request from the School of History, Technology and Society for changes to the curriculum for the B.S. with a major in History, Technology, and Society. The motion was seconded and approved.

- Eliminate HTS 1031 (Europe since the Renaissance) requirement and replace with a non-US course requirement, which will be met by a menu of courses.
- Add ECON 2101 (The Global Economy) to the menu of courses to fulfill the economics requirement for HTS majors.
- Add HTS 1000 with corrected number (Science and Technology in the Modern World) and HTS 3087 (History of Medicine) to the menu of courses to fulfill the science, technology, and medicine requirement. (These are courses that we are proposing along with these changes.)
- Increase the required number of HTS courses focused on science, technology, and/or medicine from 2 to 3 courses. This will also increase the HTS Core requirement from 35 to 38 hours.
- Require a “C or better” in HTS core courses: HTS 1001; HTS 2101; SOC 1101; HIST 2111 or 2112; ECON 2100 or 2101 or 2105 or 2106; as well as the HTS courses used to fulfill the STM, seminar, and non-US requirements.
- Reduce the number of Free Electives from 21 hours to 18 hours.

Adjourned,

Reta Pikowsky
Registrar