

MINUTES OF THE UNDERGRADUATE CURRICULUM MEETING
7 April 2004

PRESENT: Choi (BIOL), Guzdial (COC), Hughes (ECE), Kingsley (PUBP), Kohl (ChE), Lynch (ME), McIver (REG), McMath (Provost), Byars (MGT), Rudolph (ARCH), Tone (HTS), Stasko (CoC), Wills (ECE)

VISITORS: Gordon (Assessment), McGuire (LCC), Knoespel (LCC), Brakebill (MATH), Steinbart (MATH), Bolter (LCC), MacIntyre (CoC), Bobick (CoC), LeBlanc (CoC)

1. A motion was made to approve the revised 25 February 2004 and 17 March IUCC minutes. The motion was seconded and approved.
2. The School of Chemical and Biomolecular Engineering presented a list of updated prerequisites.

ChE 2100 Chem 1310 and Math 1502
 ChE 2110 ChE 2100
 ChE 2120 ChE 2100 and Physics 2211
 ChE 3110 ChE 2110
 ChE 3200 ChE 2120 and Math 2403
 ChE 3210 ChE 3200 and ChE 3110
 ChE 3225 ChE 3200 and ChE 3210*
 ChE 4200 ChE 3210, ChE 3225*, and ChE 4300*
 ChE 4300 ChE 3200 and ChE 3210*
 ChE 4400 ChE 3210, ChE 3225*, and ChE 4300*
 ChE 4505 ChE 3225, ChE 4300, and ChE 4515*
 ChE 4515 ChE 4300

* with concurrency

Please remove Chem 3411 as a prerequisite for ChE 4775.

3. The committee considered the issue of uniform course credit for undergraduate teaching assistants. An ad hoc committee was established composed of Lynch (ME, chair), Brakebill (MATH), Shook (ModLang), and Carson (REG) and charged to explore this topic, solicit input from academic units, and prepare a proposal for the IUCC. A motion endorsing this process was seconded and approved.
4. A revised (outcome reduced) version of the General Education Objectives and Outcomes was reviewed. A motion to endorse the revised document was seconded and approved.
5. Gordon Kingsley, chair of the General Education Subcommittee of the IUCC, presented his report of activities during the 03-04 academic year. The subcommittee activities included strong collaborative actions with the assessment office. He also outlined activity to prepare for the upcoming SACS accreditation visit. A motion endorsing this report was seconded and approved.
6. Mark Guzdial, the IUCC liaison with the program review committee, summarized their activity over the past academic year. He also outlined a proposed plan for fulfilling IUCC responsibility for periodic degree review at Tech. He will serve as chair on an ad hoc committee to review degree programs in ECE, MSE, EAS, and IDT. Since the reports were only recently received, the review

may not be concluded until summer or fall semester. A motion endorsing the proposed plan to execute this year's degree review was seconded and approved.

7. John Tone presented a summary of the Study Abroad Committee. Minutes of their fall and early spring meetings were reviewed. John mentioned that enrollment in the programs had recovered following SARS concerns of last year. He also mentioned that details of the "International Program" might be appearing at the IUCC meetings in Fall 2004. A motion accepting the subcommittee minutes and endorsing the report was seconded and approved.
8. The Registrar presented a request from the School of Psychology for a posthumous degree to be awarded at Spring commencement. A seconded motion was approved.
9. The School of Electrical & Computer Engineering requested the new courses and degree changes listed below. A seconded motion was approved.
 - A. New courses:
 - ECE 4112 – Internetwork Security (2-3-3)
 - ECE 4580 – Computational Computer Vision (3-0-3)
 - ECE 4605 – Advanced Internetworking (3-3-4)
 - B. Modification of the degree requirements for the Bachelor of Science in Electrical Engineering. There is no net change in the number of credit hours required for the degree.
 - a. **Delete** CS 1321 (3)
 - b. **Add** CS 1371 (3)
 - c. Blanket substitution of CS 1321 and CS 1371 for each other under all catalog/curriculum years.
 - C. New course and modification of the degree requirements for the Bachelor of Science in Computer Engineering. There is no net change in the number of credit hours required for the degree.
 - a. **New course:** ECE 3035 – Computing Mechanisms for Processing Systems (3-3-4)
 - b. **Delete** CS 1321 (3)
 - c. **Delete** Advanced Programming Elective (4)
 - d. **Add** CS 1371 (3)
 - e. **Add** ECE 3035 (4)
 - f. Blanket substitution of CS 1321 and CS 1371 for each other under all catalog/curriculum years.
 - g. Blanket substitution of ECE 3035 for Advanced Programming Elective under earlier catalog years.
10. The School of Mathematics requested degree changes for the B.S. DMTH and B.S. DMTH Business Option. A change to the MATH and MATH Business eight semester schedule is also requested. A seconded motion was approved.
 - a. CS 2130(4), CS3500(4), and CS 4500(3) are replaced by (CS 2110(4) or CS 2335(3)), CS 3510(3), and CS 4510(3)
 - b. ISYE 3332(3) is replaced by ISYE 3232(3)
 - c. Additional free electives: 1 or 2
 - d. Movement of MATH 4640 and MATH 4320 in the recommended schedule

11. The School of Biomedical Engineering requested new courses (including one cross listed course) and several prerequisite changes. A seconded motion was approved.

- a. BMED, ECE, CHE, and ME requested the creation of BMED 4782 Biosystems Analysis which will be cross listed course with the existing CHE/ECE/ME 4782 Biosystems Analysis. They also request that the prerequisites for all of these courses be changed from MATH 1502 or MATH 1512 to ECE 2040 or BMED 3500 or ME 3015 or CHE 4400.
- b. BMED and ECE requested the creation of new courses BMED 4783 and ECE 4783, Introduction to Medical Image Processing.
- c. BMED requests changes to the B.S.BME degree including:
 - i. drop requirement of BIOL 2334 and increase required concentration electives from 13 to 17
 - ii. modify BMED 3500, BMED 3300, and BMED 3161 prerequisites

12. The College of Computing requested several new courses, a minor, and several prerequisite changes. A seconded motion was approved.

- a. Creation of CS Minor: the CS minor is 18 credits, which we view as three two-class sets
 - 2000-LEVEL SET: Six credits (two classes) can be at the 2000-level. There are only two ways to take two courses to meet the pre-reqs for our upper division courses. Either the CS2110 and CS2200 path or CS2335 and CS2340.
 - SPECIALIZATION SET: We are requiring minors to take two classes in one of our Specialization areas for some depth. Our own majors take four specialization classes: Two in one area, one from two other areas. Minors must take one area, and can optionally take more specialization classes with their last set.
 - MS PREP OR SPECIALIZATION SET: Minors might also be preparing for a CS Masters degree. To do that, there are two 3000-level classes (CS 3240 and CS 3510) that they should take. With their last set of two classes, they can take those two 3000 level classes or they can take more specialization classes.
- b. Creation of CS 1316 - Representing Structure and Behavior
 - i. Change prereq for CS 1322 to CS 1316, CS 1321, or CS 1371
 - ii. Change requirements for BS CS curriculum to CS 1316 or CS 1321
- c. Creation of CS 2260 - Media Device Architectures
- d. Creation of CS 4002 – Robots and Society
 - i. Change BS CS curriculum requirements to require CS 4001 or CS 4002.
- e. Prerequisite Changes
 - i. Change prerequisite for CS 4451 to MATH 2605 and (CS 2110 or CS 2260)
 - ii. Change prerequisite for CS 4480 to CS 4451
 - iii. Change prerequisite for CS 4495 to MATH 2065 and (CS 2110 or CS 2260)

13. The School of Literature, Communications, and Culture (with CoC) requested a new degree, B.S. in Computational Media, and several new courses. A seconded motion was approved.

- a. LCC 2700: Introduction to Computational Media (3-0-3)
- b. LCC 2710: Visual Culture and Design (3-0-3)

- c. LCC 2720: Principles of Visual Design (3-0-3)
- d. LCC 2730: Constructing the Moving Image (3-0-3)
- e. LCC 3705: Principles of Information Design (3-0-3)
- f. LCC 3710: Principles of Interaction Design (3-0-3)
- g. LCC 4720: Interactive Narrative (3-0-3)
- h. LCC 4725: Games Design as a Cultural Practice (3-0-3)
- i. LCC 4730: Experimental Digital Art (3-0-3)
- j. LCC 4740: Game AI (3-0-3)
- k. LCC 4745: Intelligent Story Systems (3-0-3)

Adjourned

M. Jo McIver
Registrar

MJM:sw