

**MINUTES OF THE UNDERGRADUATE CURRICULUM COMMITTEE MEETING
19 January 2005**

PRESENT: Byars (MGT), Clark (SGA), Guzdial (COC), Jarrett (COA), McIver (REG), McMath (Provost), Parsons (COM), Snell (BIO), Stasko (COC), Tone (IAC/HTS), Webster (CEE), Wills (ECE), Williams (ECE)

VISITORS: Benkeser (BME), Carson (REG), Carter (MSE), Hughes (ECE), Rollins (OIE), Sankar (AE).

1. A motion was made to approve the minutes of 10 November 2004, 17 November 2004, 1 December 2004, and 8 December 2004. The motion was seconded and approved. Unanimous.
2. Informational item: Applied Physiology requests the deactivation of the following courses: HPS 1062, HPS 1063, and HPS 1064.
3. Informational Item: The School of Material Science and Engineering requests the deactivation of the following courses: MSE 4951 and MSE 4952.
4. A request from the Office of International Education regarding the International Plan. Several questions were raised by members of the committee and discussed. A motion was made to approve the proposal. The motion was seconded and approved. Unanimous.
5. A request from the Wallace H. Coulter School of Biomedical Engineering regarding the following curricular changes:
 - a. Deactivate BMED 2200 Fundamentals of Engineering Science.
 - b. New course **BMED 2210 Conservation Principles in Biomedical Engineering** (replacing BMED 2200 in degree requirements) (4-0-4).
 - c. Add COE 2001 Statics as a required course.
 - d. Reduce the number of elective hours from 17 to 14 (9 BME technical electives and 5 free electives).
 - e. Prerequisites changes (see request letter in agenda)
 A motion was made to approve the request. The motion was seconded and approved. Unanimous.
6. A request from the School of Earth and Atmospheric Sciences for three new courses:
 - a. New course **EAS 4460: Satellite and Radar Meteorology (3-0-3)**
 - b. New course **EAS 4470: Large-Scale Atmospheric Circulations (3-0-3)**
 - c. New course **EAS 4350: Paleoclimatology and Paleoceanography (3-0-3)**
 A motion was made to approve the request. The motion was seconded and approved. Unanimous.
7. A request from the School of Public Policy to changes requirements for the Philosophy, Science and Technology minor and certificate.
A motion was made to approve the request. The motion was seconded and approved. Unanimous.
8. A request from the School of Aerospace Engineering regarding the following curricular changes :
 - a. New course: **AE 3125 (4-0-4) Aerospace Structural Analysis** to curriculum.
 - b. Replace “AE 2120 (3-0-3) + AE 3120 (3-0-3) + AE 3122 (3-0-3)” with “CoE 2001 Statics (2-0-2) + CoE 3001 Deformable Bodies (3-0-3) + AE 3125 (4-0-4).”
 - c. Change the “science elective” requirement in BSAE to a “technical elective” requirement.
 A motion was made to approve the request. The motion was seconded and approved. Unanimous.

9. A request from the School of Materials Science and Engineering for a new cross-listed course: **MSE 4755 (1-6-3) Electronic Packaging Substrate Fabrication** (with ECE/ChBE 4755). A motion was made to approve the request. The motion was seconded and approved. Unanimous.
10. A request from the Department of Naval Science regarding a new course: **NS 3324: (3-0-3) Marine Weapons Tactics**. A motion was made to approve the request. The motion was seconded and approved. Unanimous.
11. A request from the School of International Affairs regarding the following curricular changes:
- Deactivate INTA3201 - Political Geography.
 - New course **INTA 4060: International Law (3-0-3) Social Science**
 - New course **INTA 4XXX - Korean Security Policy (3-0-3) Social Science**
 - Add INTA 4060 to list of courses for Pre-Law certificate.

A motion was made to approve the request. The motion was seconded and approved. Unanimous.

12. A request from the College of Architecture for the following new Building Construction courses
- New course **BC 4700: (3-0-3) Construction Management**
 - New course **BC 4710: (3-0-3) Green Construction**
 - New course **ARCH 4133: (3-0-3) Architecture and the Discourse of the Everyday**
 - Add humanities credit (core area C) to ARCH 4151: History of Urban Form
 - Deactivate ARCH 4116: Filmic Constructions of Space and ARCH 4130: Responsive Territories

A motion was made to approve the request. The motion was seconded and approved. Unanimous.

13. A request from the School of Biology regarding the following curricular changes:
- Revise the catalog description of Ecology (BIOL 2335).
 - New course **BIOL 2400: Mathematical Models in Biology (3-0-3)**
 - New course **BIOL 3600: Introduction to Evolution (3-0-3)**
 - New course **BIOL 4400: Experimental Design and Statistical Methods in Biology (3-3-4)**
 - New course **BIOL 4608: Prokaryotic Molecular Genetics**
 - New course **BIOL 4668 Eukaryotic Molecular Genetics**
 - Deactivate BIOL 4220, BIOL 4469, BIOL 4220 and 4608 are equivalent and substitutable courses so credit should not be given for both. BIOL 4469 and 4668 are equivalent and substitutable courses so credit should not be given for both.
 - Change the Biology courses required of all Biology majors to: BIOL 1510, BIOL 1520, BIOL 2335, BIOL 2344, BIOL 3600, BIOL 2400, BIOL 3340, and BIOL 4450. Students are required to take 2 of the 3 labs from the following list: BIOL 2345, BIOL 2336, BIOL 3341. Students are required to take a senior research experience comprised of one of the following: Project labs BIOL 4290, 4390, or 4490, or BIOL 4910 Honors undergraduate thesis.
 - Change the elective requirements for all Biology students. Students will be required to take 21 units of Biology electives. These consist of any upper division course offered in the School of Biology, as well as select courses offered by other units. Students may take up to 6 units from courses offered by other units.

A motion was made to approve the request. The motion was seconded and approved. Unanimous.

14. A request from the College of Computing regarding the following curricular changes:
- Change to the science requirement in the BSCS degree program:
 - Physics 2211 and Physics 2212, and one of the currently approved laboratory science courses

- ii. Physics 2211 and a two-semester laboratory course sequence in Biology (1510 and 1520)
- iii. Physics 2211 and a two-semester laboratory course sequence in Chemistry (1310 and 1311/12)
- iv. Physics 2211 and a two-semester laboratory course sequence in Earth & Atmospheric Science from approved list.
- b. Changes to specialization areas in the BSCS degree program:
 - i. Replace CS 4500 with CS 4510 (Automata and Complexity) in the Theory Area.
 - ii. Add CS 4235 (Introduction to Information Security) to the Computer Systems and Networking and Telecommunications Areas.

A motion was made to approve the request. The motion was seconded and approved. Unanimous.

15. A request from the School of Modern Languages for two new courses:

- a. New course **RUSS 3001: (3-0-3) Advanced Russian I (Humanities)**
- b. New course **RUSS 3002: (3-0-3) Advanced Russian II (Humanities)**

A motion was made to approve the request. The motion was seconded and approved. Unanimous.

16. A discussion item on a definition of Residency Credit guaranteeing minimum hours at Georgia Tech and during critical material. Joe Hughes suggested reexamining the definition of residency credit and the 36-hour rule in the current education environment offered at Georgia Tech. A reexamination of what a Georgia Tech degree requires in terms of (a) total hours taken at Georgia Tech and (b) hours taken in major may be an appropriate starting point for the discussion. The discussion should proceed in parallel and coordination with the Institute Graduate Curriculum Committee and recommendations should be forwarded to the Student Regulations Committee. The item will be taken up at IUCC meeting later this spring.

17. A request from the School of Mathematics for one new course. The course was submitted as a crosslisted number in order to be crosslisted with Physics in the future.

- a. New course: **Math 4782 Quantum Information & Quantum Computing (3-0-3)**

A motion was made to approve the request. The motion was seconded and approved. Unanimous.

Adjourned,

M. Jo McIver
Registrar

MJM: sw