Institute Undergraduate Curriculum Committee
Appeals and Academic Matters (Full Committee)
Tuesday, April 20, 2010

Present: Seitzman (AE), Pikowsky (REG), Ferri (ME), Montoya (BIO), Castro (COA), Bottomley (CHEM), Tone (HTS), Ludovice (CHBE), Chang (MGT), Schatz (PHYS), Zha (CoC)

Visitors: Laros (REG), Howson (REG), Simon (REG), Paraska (Provost), Stein (Dean of Students), Parsons (MGT), Spencer (UG Studies), Lu (CHBE), Blaylock (ME), Lee (CoE), Mobley (Career Services), Cameron (CoC), 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 motion was made to approve a request from the School of Chemical and Biomolecular Engineering for a new course. The motion was seconded and approved.

NEW COURSE
CHBE 4710: Microfluidics and Bio Applications (3-0-3)

Note: This course was approved as non-repeatable and will be recorded in Banner as Letter grade, Pass/Fail, and Audit modes. The Transcript Title will be listed as Microfluidics & Bio Appl.

A graduate version of this course was referenced at the meeting as planned. The presenter confirmed that the GCC had not received that proposal as yet.

2. A motion was made to approve a request from the School of Literature, Communication, and Culture for a course deactivation. The motion was seconded and approved.

DEACTIVATE
LCC 4700

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

DEGREE MODIFICATION
Bachelor of Science in Biology

The School of Chemistry is modifying its introductory course sequence in Fall 2010. We propose to replace the current first year chemistry requirement (Chem 1310, 1311, and 1312) with the new sequence of Chem 1211K and 1212K. Our students need a full year of introductory chemistry and the course sequence used previously will no longer exist since Chem 1311 and 1312 are being discontinued. These changes do not affect the total number of credit hours required for the degree, or the distribution of those hours in the 8 semester curriculum.
4. A motion was made to approve a request from the College of Engineering for a new course. The motion was seconded and approved.

**NEW COURSE**

COE 1000: Freshman Engineering Seminar (1-0-1)

5. A motion was made to approve a request from the Colleges of Computing, Engineering, Ivan Allen, and Sciences for a collaboration agreement with Georgia State. The motion was seconded and approved.

**Collaboration Agreement**

Bachelor of Science/Master of Teaching Degree Program

Objective of the program is to increase the number of highly qualified K-12 teachers in the state, by establishing an opportunity for Georgia Institute of Technology (Georgia Tech) undergraduates to complete a bachelor of science degree at Georgia Tech and a Master of Arts in Teaching (MAT) at Georgia State University (Georgia State).

The BS/MAT option will be available to Georgia Tech undergraduates who have completed at least 30 hours of academic credit at Georgia Tech (excluding AP or transfer credits) and who have earned a minimum cumulative GPA of 3.5 at Georgia Tech. Students may apply to the option at any time after completing 30 hours but prior to completing 90 hours of undergraduate coursework. Applicants are applying for early acceptance into the Georgia State MAT program and therefore must submit the following documentation in addition to meeting the GPA requirement:

- Complete the BS/MAT application form. This will be kept on file in both the student’s academic major department and in the office of the Director of Pre-Teaching at Georgia Tech
- 2-3 letters of recommendation: (a) one academic or professional letter; (b) one letter from someone who can evaluate the applicant’s personal qualifications, experience, and background in light of potential to work successfully with adolescents; (c) one letter from a current work supervisor, if applicable
- Documentation of previous work experience (résumé or curriculum vitae)
- Personal statement of goals and/or reasons for teaching
- Successful interview with appropriate program faculty in the Georgia State College of Education

Final acceptance into the MAT portion of the program will be contingent upon the following:

- Maintaining a cumulative GPA at Georgia Tech of 3.0 or higher
- Completion of an undergraduate degree in a field appropriate for the MAT program
- Submission of GRE scores of 800 or higher (combined Verbal and Quantitative scores)
- Filing an application to the MAT program at Georgia State by the appropriate deadline

6. A motion was made to approve a request from the School of Chemistry and Biochemistry for acknowledgement of pre-requisite changes and degree modification. The motion was seconded and approved.

**PRE-REQUISITE MODIFICATIONS**

<table>
<thead>
<tr>
<th>Current Course</th>
<th>Credit Hours</th>
<th>Replace with</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 1310</td>
<td>4</td>
<td>CHEM 1211K</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 1311 and</td>
<td>3</td>
<td>CHEM 1212K</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 1312</td>
<td>1</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
CHEM 1315  prerequisite: CHEM 1211K or CHEM 1310
CHEM 2211  prerequisite: CHEM 1212K or CHEM 1312
CHEM 2311  prerequisites: CHEM 1212K or CHEM 1311
CHEM 2380  prerequisite: (CHEM 1212K or CHEM 1312 or CHEM 1313 or CHEM 2211) and CHEM 2311;
prerequisites with concurrency: CHEM 2312
CHEM 3111  prerequisites: CHEM 1212K or CHEM 1311
CHEM 3411  prerequisites: CHEM 1212K or CHEM 1311
CHEM 3412  prerequisite: (CHEM 1212K or CHEM 1311) and PHYS 2212
CHEM 4740  prerequisite: (CHEM 1212K or CHEM 1310) and PHYS 2211 and
MATH 2401 and (EAS 3603 or CHEM 3411)

The changes are related to the recently approved new CHEM 1211K and CHEM 1212K courses. CHEM 1311
and CHEM 1312 will be discontinued at a later time.

DEGREE MODIFICATION
Bachelor of Science in Chemistry

The freshman chemistry courses will be modified in Fall 2010 and will result in the new CHEM 1211K and
CHEM 1212K courses being a more appropriate courses for CHEM majors than CHEM 1310, CHEM 1311,
and CHEM 1312.

New courses LCC 4701 and LCC 4702 will replace LCC 4700, in the research option.

MSE 2020, MSE 3000, and MSE 3020 will be replaced by a list of MSE courses from which students may
select nine credit hours (six at the 3000 level or above) to reflect recent changes in the MSE curriculum and
offer students greater flexibility. At least one course must contain a laboratory component.

These courses changes do not change the total number of degree program credit hours.

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<tbody>
<tr>
<td>CHEM 1310</td>
<td>4CH</td>
<td>CHEM 1211K</td>
<td>4CH</td>
</tr>
<tr>
<td>CHEM 1311 and</td>
<td>3CH</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>CHEM 1312</td>
<td>1CH</td>
<td>CHEM 1212K</td>
<td>4CH</td>
</tr>
<tr>
<td>LCC 4700</td>
<td>2CH</td>
<td>LCC 4701</td>
<td>1CH</td>
</tr>
<tr>
<td></td>
<td></td>
<td>LCC 4702</td>
<td>1CH</td>
</tr>
<tr>
<td>MSE 2020, MSE 3000, and MSE 3020</td>
<td>9 CH total</td>
<td>9 CH from the following: MSE 2010, 3000, 3002, 3003, 3012, 3015, 3021, 4002, 4010, 4020, 4022, 4325, 4751, or special topics (with approval of the undergraduate coordinator)</td>
<td>9 CH total</td>
</tr>
</tbody>
</table>

DEGREE MODIFICATION
Bachelor of Science in Biochemistry
The freshman chemistry courses will be modified in Fall 2010 and will result in the new CHEM 1211K and CHEM 1212K courses being more appropriate courses for CHEM majors than CHEM 1310, CHEM 1311, and CHEM 1312.

New courses LCC 4701 and LCC 4702 will replace LCC 4700, in the research option.

These courses changes do not change the total number of degree program credit hours.

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<td>2CH</td>
<td>LCC 4701</td>
<td>1CH</td>
</tr>
<tr>
<td></td>
<td></td>
<td>LCC 4702</td>
<td>1CH</td>
</tr>
</tbody>
</table>

7. A motion was made to approve a request from the School of Mechanical Engineering for modification to the minor and certificate in Nuclear and Radiological Engineering. The motion was seconded and approved.

**MINOR MODIFICATION**

Nuclear and Radiological Engineering

Update of required and elective course list due to addition of new courses in the B.S. NRE curriculum in 2009 and previous years. The proposed update also reduces the total number of hours for the NRE minor from 18 credit hours to 15 credit hours consistent with the updated undergraduate minor guidelines.

<table>
<thead>
<tr>
<th>Current Program of Study</th>
<th>Action to Take</th>
<th>Proposed Program of Study</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Required Courses (9 hrs)</strong></td>
<td></td>
<td><strong>Required Courses (9 hrs)</strong></td>
</tr>
<tr>
<td>NRE 3301: Radiation Physics</td>
<td>Keep</td>
<td>NRE 3301 Radiation Physics</td>
</tr>
<tr>
<td>NRE 3212: Fundamental of NRE</td>
<td>Replace With</td>
<td>NRE 3208 Nuclear Reactor Phys I</td>
</tr>
<tr>
<td><strong>Elective Courses (9 hrs)</strong></td>
<td></td>
<td><strong>Elective Courses (6 hrs)</strong></td>
</tr>
<tr>
<td>NRE 2110: Intro to NRE</td>
<td>Keep</td>
<td>NRE 2110 Intro to NRE</td>
</tr>
<tr>
<td>NRE 4204: Nuclear Reactor Phys.</td>
<td>Replace With</td>
<td>NRE 4208: Nuclear Reactor Phys. II</td>
</tr>
<tr>
<td>NRE 4206: Radiation Physics Lab</td>
<td>Replace With</td>
<td>NRE 3112: Radiation Detection</td>
</tr>
<tr>
<td>NRE 4214: Reactor Engineering</td>
<td>Keep</td>
<td>NRE 4214: Reactor Engineering</td>
</tr>
<tr>
<td>NRE 4232: NRE Design</td>
<td>Keep</td>
<td>NRE 4232: NRE Design</td>
</tr>
<tr>
<td>NRE 4266: LWR Technology</td>
<td>Keep</td>
<td>NRE 4266: LWR Technology</td>
</tr>
<tr>
<td>NRE 4328: Radiation Sources and Applications</td>
<td>Keep</td>
<td>NRE 4328: Radiation Sources and Applications</td>
</tr>
<tr>
<td>NRE 4335: Radiation Imaging</td>
<td>Replace With</td>
<td>NRE 4750: Diagnostic Imaging</td>
</tr>
</tbody>
</table>
CERTIFICATE MODIFICATION
Nuclear and Radiological Engineering

Update of required and elective course list due to addition of new courses in the B.S. NRE curriculum in 2009 and previous years.

The total number of hours for the NRE certificate is currently 12 credit hours and will remain the same.

<table>
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<td>NRE 3301: Radiation Physics</td>
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<tr>
<td>NRE 3212: Fundamental of NRE</td>
<td>Replace With</td>
<td>NRE 3208 Nuclear Reactor Phys I</td>
</tr>
</tbody>
</table>

| Elective Courses (3 hrs) | | Elective Courses (3 hrs) |
|--------------------------| |--------------------------|
| NRE 2110: Intro to NRE | Keep | NRE 2110: Intro to NRE |
| NRE 4204: Nuclear Reactor Phys. | Replace With | NRE 4208: Nuclear Reactor Phys. II |
| NRE 4206: Radiation Physics Lab | Replace With | NRE 3112: Radiation Detection |
| NRE 4214: Reactor Engineering | Keep | NRE 4214: Reactor Engineering |
| NRE 4232: NRE Design | Keep | NRE 4232: NRE Design |
| NRE 4266: LWR Technology | Keep | NRE 4266: LWR Technology |
| NRE 4328: Radiation Sources and Applications | Keep | NRE 4328: Radiation Sources and Applications |
| NRE 4335: Radiation Imaging | Replace With | NRE 4750: Diagnostic Imaging |
| NRE 4404: Radiological Assessment and Waste Management | Keep | NRE 4404: Radiological Assessment and Waste Management |
| NRE 4770 Nuclear Chemical Engineering | Keep | NRE 4770 Nuclear Chemical Engineering |

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

DEGREE MODIFICATION
Bachelor of Science in Aerospace Engineering

a. The freshman chemistry courses will be modified in Fall 2010, and result in the new CHEM 1211 K and CHEM 1212 K courses. While most AE students will be taking the recommended CHEM 1310 course,
some transfer students and students changing majors to AE may have only completed CHEM 1211K.

CHEM 1211K lacks several topics currently covered in CHEM 1310 that are important to aerospace engineering. This proposal addresses such a situation.

b. We request that the “CHEM 1310” requirement in our program be replaced with “CHEM 1310 or (CHEM 1211K + CHEM 1212K)” requirement. This change will ensure that students who completed only CHEM 1211K will also complete CHEM 1212K. The extra four hours may be used to meet our science elective requirements and/or free elective requirements.

c. There are no changes to the total number of hours, or to the sample 8 semester program. A footnote has been added stating that students who had taken CHEM 1211K instead of CHEM 1310 should also take CHEM 1212K, and may apply the extra four hours towards the science and/or free electives requirements in our program.

9. A motion was made to approve a request from the School of Computer Science for degree modification, course deactivations, and acknowledgement of changes in pre-requisites. The motion was seconded and approved.

**PRE-REQUISITE MODIFICATIONS – Informational Item**

CS 1372

The prerequisite for CS 1372 changes from “CS 1171 or CS 1371” to “CS 1171 or CS 1371 or CS 1301”.

CS 2200

The prerequisite for CS 2200 changes from “CS 2110 or CS 2261” to “CS 2110”.

**COURSE DEACTIVATIONS**

CS 1321
CS 1322
CS 13X1
CS 13X2
CS 13X3
CS 15XX

**DEGREE MODIFICATION**

Bachelor of Science in Computer Science

Replace LCC 3401 (2 credits) with LCC 3403 (3 credits).

Reduces the number of Free Electives hours by 1 credit hour in each Thread.

The modification is necessary due to the change made by LCC to the required course LCC 3401. LCC stated that the material covered in LCC 3401 warrants an increase in credit hours from 2 credit hours to 3 credit hours. As a result, LCC 3403 (3 credit) will replace LCC 3401 (2 credits) in the Fall of 2010.

Also, a revision in the Thread Elective Options—For CS courses, courses below 3000 level can no longer count as thread electives, and for non-CS courses, courses below 2000 level can no longer count as thread electives. This change directly impacts the thread electives for 2 threads—Media and Modeling/Simulation.

Note: This change will be reflected on the specific elective pages attached to each of the 28 Computer Science degree requirements pages (8-terms) listed in catalog and a general description of this new
10. A motion was made to approve a request from the College of Management for new courses and degree modification. The motion was seconded and approved

**NEW COURSES**

MGT 3599: Career Development Workshop (1-0-1)
MGT 4194: Social Entrepreneurship (3-0-3)
MGT 4309: Services Marketing (3-0-3)
   
   Note: Course number for Services Marketing was proposed as 4306 but that number is not available. MGT 4309 was approved for use. This course is for 3 hours credit.

MGT 4308: Advertising and Promotion: Integrated (3-0-3)
   
   Note: This course was approved to be recorded in Banner as Letter grade, Pass/Fail, and Audit modes.

**DEGREE MODIFICATION**

Bachelor of Science in Management

- Change the name of the degree to:
  Bachelor of Science in Business Administration
- Establish required grade of C in Concentration courses
- Change Concentrations and establish Concentration Requirements for undergraduate programs:
  1. Accounting
  2. Finance
  3. Information Technology Management
  4. Leading and Managing Human Capital
  5. Marketing
  6. Operations and Supply Chain Management
  7. General Management

The College currently offers eight concentrations:

- Accounting
- Entrepreneurship
- Finance
- Information Technology Management
- Marketing
- Operations Management
- Organizational Behavior
- Strategic Management

In the proposed program, the College will offer the following seven concentrations:

- Accounting
- Finance
- Information Technology Management
- Leading and Managing Human Capital (formerly Organizational Behavior, but expanded content now)
- Marketing
- Operations and Supply Chain Management (formerly Operations Management, but expanded content now)
- General Management (New)

The College currently does not require a concentration. In the proposed program the student must have a
concentration and complete the specified course requirements.

The current Bachelor of Science degree requires courses meeting the Board of Regents and Georgia Tech Core requirements, 6 hrs of Economics, 39 hours of common core ACCT & MGT courses, required minimum of 18 hours of MGT elective courses, 6 hrs of non-MGT elective and 9 hours of Free electives for a total of 122 hrs.

The proposed Bachelor of Science in Business Administration will require meeting the Board of Regents and Georgia Tech Core requirements, 6 hrs of Economics, 39 hours of common core MGT courses, required minimum of 18 hours of MGT elective courses in a chosen concentration with a grade of C or better, 6 hrs of non-MGT elective and 10 hours of Free electives for a total of 122 hrs.

11. A motion was made to approve a request from the Department of Career Services for a new course. The motion was seconded and approved.

NEW COURSE
GT 4801: Special Topics (Career Development)

12. The Chair of the Committee noted that the issue of how courses are approved, who teaches them, and who has academic oversight is something that the Committee likely needs to take up for further discussion. The Committee members agreed.

Student Petitions
1. Student Petitions Considered and Voted-Upon by the Committee
All were approved except as noted:

1 - Change grade mode
2 - Selective withdrawal
1 - 36-hour rule waiver – appeal (Denied)
1 - Term withdrawal
   1- Return Summer after withdrawing Spring
3 - Request registration overloads for Summer 2010
4 - 36-hour rule waiver (1 Denied)

Adjourned,

Reta Pikowsky
Registrar