

**Institute Undergraduate Curriculum Committee**  
**Minutes**  
**Academic Matters and Appeals (Full Committee)**  
**Tuesday, October 27, 2015**

**Present:** Mayor (ME), Hollengreen (ARCH), Pikowsky (Registrar), Goodisman (BIOL), Lucas (UG Student Representative), MacIntyre (CoC-IC), Mihail (CoC-CS), Millard-Stafford (APPH), Parsons(CoB), Potts (Vice Provost), Senf (LMC), Shepler (CHEM-Executive Board Liaison), Singh (MSE), Singleton (PSYC), Smith (ME), Yaszek (LMC), Zhou (ISyE)

**Visitors:** Hodges (REG), Laros (REG), D’Unger (H&S), Baron (CHEM), Raczynski (CoC), Leahy (CoC), Erera (ISyE)

**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. Approval or notification to the Southern Association of Colleges and Schools may also be necessary.

**Note:** All votes are unanimous unless specifically noted otherwise.

**Academic Matters**

1. A motion was made to *approve* a request from the School of Modern Languages for addition of the pass/fail grade mode to an existing course. The motion was seconded and approved.

**Course Other – Approved**

**This vote was not unanimous: 11 approve, 3 deny, and 1 abstain.**

JAPN 4750: Japn Discourse & Grammar  
Pass/Fail option added as a grade mode option

**Note:** The Chair of Modern Languages will be invited to attend a future meeting to talk about “heritage learners” in the broader context to better inform such proposals.

2. A motion was made to *approve* a request from the School of Industrial and Systems Engineering to create a BS/MS program for BSIE/MSSCE. The motion was seconded and approved.

**New Track or Option - Approved**

**BS/MS program for BSIE/MSSCE**

Bachelor of Science in Industrial Engineering – Supply Chain Engineering concentration

The Georgia Tech School of Industrial and Systems Engineering (ISyE) seeks to modify its Bachelor of Science degree in Industrial Engineering (BSIE) and its Master of Science in Supply Chain Engineering (MSSCE) degrees by offering a new BS/MS program option.

Under the proposed BS/MS option, a student would complete the BSIE degree by replacing two degree course electives with MS-level courses that will be double-counted toward the follow-on MSSCE degree. After graduation, the student would convert to graduate status and complete the MSSCE degree after two additional semesters, one at full-time enrollment and one at half-time enrollment.

Undergraduate students who complete the BSIE/MSSCE program will complete three (3) required MS courses while on undergraduate status; each of these courses are offered Fall semesters only. The BSIE program will be updated to include the MS courses for the BSIE/MSSCE program as a Depth elective option and a Breadth elective option.

SCE Depth elective	3	<a href="#">ISYE 4111</a> or <a href="#">ISYE 4803</a> or <a href="#">ISYE 6335*</a>
SCE Breadth electives	9	<a href="#">CS 4641</a> or <a href="#">ECON 3150</a> or <a href="#">ECON 4340</a> or <a href="#">ECON 4350</a> or <a href="#">ISYE 3039</a> or <a href="#">ISYE 4031</a> or <a href="#">ISYE 4133</a> or <a href="#">ISYE 4232</a> or <a href="#">ISYE 4301</a> or <a href="#">ISYE 4311</a> or <a href="#">ISYE 4803</a> or <a href="#">MATH 4262</a> or <a href="#">MGT 3078</a> or <a href="#">ISYE 6333*</a>

See Proposal 4847 on IUCC site for further details on the BSIE/MSSCE program.

See Proposal 4850 on IGCC site for graduate level updates on the BSIE/MSSCE program.

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

### **Degree Modification – Approved**

#### **Bachelor of Science in Chemistry**

(Addition of new concentration in Pre-Health Science)

#### **Bachelor of Science in Biochemistry**

(Addition of new concentration in Pre-Health Science)

A proposal to add a new Pre-Health Science concentration. The traditional BS Chemistry and BS Biochemistry degree requirements are being modified to add 5 pre-Health Science elective courses and suggest courses for the Social Science electives and suggest free electives that are pre-Health oriented.

**Note:** There was discussion about whether keeping the “Pre-Health Science” language was the best option, over “Health Science” as the other option. After some discussion, the decision was to retain the current language. It was noted as well that Core Area E was missing on the chart provided that outlined the degree requirements.

### **B.S. in Biochemistry – pre-health science concentration**

The Bachelor of Science in Biochemistry degree Pre-Health Science option provides a combination of required and elective courses that ensure a strong foundation in the chemical and biological sciences while providing the flexibility to tailor a curriculum that satisfies specific interests or career goals within the health-related professions. This curriculum meets the admission requirements for medical, pharmacy, dental, veterinary, physical therapy or graduate school. The judicious use of pre-health science electives, social science electives and suggested free electives enables students to build a foundation for further study that incorporates topics from chemical and biomolecular engineering, bioinformatics (computing), biomedical engineering, and biology.

***Degree requirement: TOTAL = 120 Hours plus 2 Hours Wellness Requirement***

Typical Program of Study:

	<b>First Semester</b>		<b>Second Semester</b>	
<b>1st Year</b>	CHEM 1211K (4) MATH 1551 (2) ENGL 1101 (3) BIOL 1510 (4) GT 1000 (1) <i>Sub-Total (14)</i>	Chemical Principles I Differential Calculus English Composition I I Biological Principles Freshmen Seminar	CHEM 1212K (4) MATH 1552 (4) ENGL 1102 (3) BIOL 1520 (4) <i>Sub-Total (15)</i>	Chemical Principles I Integral Calculus English Composition I Intro Organismal Biol
<b>2nd Year</b>	CHEM 2211 (3) CHEM 2311 (3) Pre-Health Elec.** (3) PHYS 2211 (4) MATH 1553 (2) <i>Sub-Total (15)</i>	Quantitative Anal. Lab Organic Chemistry I Introduction to Physics I Intro Linear Algebra	CHEM 2312 (3) CHEM 2380 (2) PHYS 2212 (4) Core Elective* (3) Core Elective* (3) <i>Sub-Total (15)</i>	Organic Chemistry II Synthesis Lab I Introduction to Physics II
<b>3rd Year</b>	CHEM 3411 (3) CHEM 4511 (3) CHEM 3371 (2) Pre-Health Elec.** (3) Core Elective* (3) Core Elective* (2) <i>Sub-Total (16)</i>	Physical Chemistry I Biochemistry I Organic Chemistry Lab Wellness Requirement	CHEM 4512 (3) CHEM 4581 (3) Pre-Health Elec.** (3) Core Elective* (3) Core Elective* (3) <i>Sub-Total (15)</i>	Biochemistry II Biochemistry Lab I
<b>4th Year</b>	CHEM 4582 (3) Core Elective* (3) Pre-Health Elec.** (3) Free Electives*** (6) <i>Sub-Total (15)</i>	Biochemistry Lab II	CHEM 3211 (5) Pre-Health Elec.** (3) Free Electives*** (6) Core Electives* (3) <i>Sub-Total (17)</i>	Analytical Chemistry Lab

**\*\*Pre-Health Science Electives**

- Pre-Health Science Electives (15 credits required)

**\*\*\*Free Electives**

- Free electives may be any GT courses. Only Free Electives may be taken as Pass / Fail grade mode (up to 9 hours total).

GT 1000 Freshmen Seminar (1 credit) is recommended for all incoming freshmen

See proposal 4823 on IUCC site for additional details and list of suggested electives.

## B.S. in Chemistry – pre-health science concentration

The B.S. in Chemistry (pre-health science option) offers students well-balanced training in the fundamental areas of chemistry (i.e., organic, analytical, inorganic, physical, and biochemistry) and courses that prepare students for careers in the health-related professions. This curriculum meets the admission requirements for medical, pharmacy, dental, veterinary, physical therapy or graduate school. Students choosing this option are encouraged to enroll in a wide range of pre-health courses, social science electives and free electives. Graduates typically enter professional schools in medicine, dentistry, pharmacy or related fields.

**Degree requirement: TOTAL = 120 Hours plus 2 Hours Wellness Requirement**

Typical Program of Study:

	First Semester		Second Semester	
<b>1st Year</b>	CHEM 1211K (4) MATH 1551 (2) ENGL 1101 (3) GT 1000 (1) BIOL 1510 (4)	Chemical Principles I Differential Calculus English Composition I Freshmen Seminar Biological Principles	CHEM 1212K (4) MATH 1552 (4) ENGL 1102 (3) BIOL 1520 (4)	Chemical Principles II Integral Calculus English Composition II Intro Organismal Biol
	<i>Sub-Total (14)</i>		<i>Sub-Total (15)</i>	
<b>2nd Year</b>	CHEM 2211 (3) CHEM 2311 (3) Pre-Health Elec** (3) PHYS 2211 (4) MATH 1553 (2) <i>Sub-Total (15)</i>	Quantitative Anal Lab Organic Chemistry I  Intro to Physics I Intro Linear Algebra	CHEM 2312 (3) CHEM 2380 (2) PHYS 2212 (4) Pre-Health Elec** (3) Core Elective* (3) <i>Sub-Total (15)</i>	Organic Chemistry II Synthesis Lab I Intro to Physics II
<b>3rd Year</b>	CHEM 3411 (3) CHEM 3211 (5) Pre-Health Elec** (3) TECH Elective (3) Core Elective* (2) <i>Sub-Total (16)</i>	Physical Chemistry I Analytical Chemistry   Wellness Requirement	CHEM 3412 (3) Lab Elective (3) Pre-Health Elec.** (3) Core Elective* (3) Core Elective* (3) <i>Sub-Total (15)</i>	Physical Chemistry II

<b>4th Year</b>	CHEM 3111 (3)	Inorganic Chemistry	CHEM 3511 or 4511 (3)	Biochemistry Elective
	Lab Elective (3)		Core Elective* (3)	
	Pre-Health Elec**(3) Core Elective* (3)		Core Elective* (3)	
	Core Elective* (3)		Free Elective (8)	
	Sub-Total (15)		Sub-Total (17)	

### **\*\*Pre-Health Science Electives**

- Pre-Health Science Electives (15 credits required)

### **\*\*\*Free Electives**

- Free electives may be any GT courses. Only Free Electives may be taken as Pass / Fail grade mode (up to 9 hours total).

GT 1000 Freshmen Seminar (1 credit) is recommended for all incoming freshmen

See proposal 4824 on IUCC site for additional details and list of suggested electives.

4. A motion was made to *approve* a request from the School of Literature, Media, and Communication and the School of History and Sociology for a minor modification. The motion was seconded and approved.

### **Minor modification – Approved Minor in Social Justice**

The Schools of History and Sociology and Literature, Media, and Communication are petitioning the IUCC to add five classes to the roster of those that will count towards the Social Justice minor.

Students select two HTS courses and two LMC courses from a menu of courses in the respective schools, and then select one additional course from those menus (five total classes, 15 hours).

***Proposed class additions are highlighted in yellow.***

### **Approved courses include the following:**

HTS 2016- Social Issues and Public Policy  
 HTS 3005- American Environmental History  
 HTS 3006- United States Labor History

HTS 3008- Class, Power, and Inequality  
HTS 3011- The City in American History  
HTS 3016- Women and Gender in the United States  
HTS 3017- Sociology of Gender  
HTS 3020- Gender and Technology  
HTS 3022- Gender and Sports  
HTS 3023- Free People of Color  
HTS 3024- African American History to 1865  
HTS 3025- African American History Since 1865  
HTS 3026- Race and Ethnicity  
HTS 3027- The Civil Rights Movement  
HTS 3031- European Labor History  
HTS 3051- Women and Gender in the Middle East  
HTS 3064- Sociology of Development  
HTS 3066- Sociology of Politics and Society  
HTS 3067- Revolutionary Movements  
HTS 3068- Social Movements  
HTS 3071- Sociology of Crime  
HTS 3088- Race, Medicine, and Science  
LMC 2200- Introduction to Gender Studies  
LMC 3208- African American Literature and Culture  
LMC 3210- Ethnicity in American Culture  
LMC 3212- Women, Literature, and Culture  
LMC 3225- Gender Studies in the Disciplines  
LMC 3302- Science, Technology, and Ideology  
LMC 3304- Science, Technology, and Gender  
LMC 3306- Science, Technology, and Race  
LMC 3308- Environmentalism and Ecocriticism  
LMC 3314- Technologies of Representation  
LMC 3316- Science, Technology, and Post-colonialism  
LMC 3318- Biomedicine and Culture

SOC 1101- Introduction to Sociology

5. A motion was made to *table* a request from the College of Computing for a pre-requisite modification.

### **Pre-requisite Modification - Tabled**

CS 4400: Intro to Database Systems

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 – Approved**

**Bachelor of Science in Computer Science**

(All concentrations)

We are requesting to change the Research and VIP portion of junior design to allow for a better student learning outcome. Students completing Research for their junior design requirement will now be required to complete the Institute's Research Option which includes 9 hours of research, of which 6 must be on the same research project and LMC 4701 (1 hour)- Undergraduate Research Proposal Writing and LMC 4702 (1 hour) Undergraduate Research Thesis Writing. The Research Option will satisfy both their junior design requirement and Technical Writing requirement. 4 of the 9 research hours must be taken for credit.

Students completing VIP for their junior design requirement will now be required to complete three semesters of VIP with LMC 3403. VIP 1 (1 hour) + VIP 2 (2 hours) + VIP 3 (2 hours) = 5 hours of VIP credit and LMC 3403 (3 hours) is taken either during their last semester of VIP or after completion of VIP. VIP 2 and 3 must be at the 3000/4000 level. If a student begins one option, and changes their mind, they will have to start and complete a different alternative (no mixing of junior design options).

## BACHELOR OF SCIENCE IN COMPUTER SCIENCE

### APPLY TO ALL THREAD COMBINATIONS

#### THREAD: DEVICES & PEOPLE

REQUIREMENT	REQ HRS	COURSE(S)	NOTES
<b>Wellness</b>	2	<a href="#">APPH 1040</a> or <a href="#">APPH 1050</a>	
<b>Core A - Essential Skills</b>	3	<a href="#">ENGL 1101</a>	
	3	<a href="#">ENGL 1102</a>	
	4	<a href="#">MATH 1501</a>	
<b>Core B - Institutional Options</b>	3	<a href="#">CS 1301</a>	<b>c</b>
<b>Core C - Humanities</b>	6	<a href="#">Any HUM</a>	
<b>Core D - Science, Math, &amp; Technology</b>	4	<a href="#">PHYS 2211</a>	<b>a</b>
	4	<a href="#">Lab Science</a>	<b>a</b>
	4	<a href="#">MATH 1502</a>	
<b>Core E - Social Sciences</b>	3	<a href="#">HIST 2111</a> or <a href="#">HIST 2112</a> or <a href="#">INTA 1200</a> or <a href="#">POL 1101</a> or <a href="#">PUBP 3000</a>	
	3	<a href="#">PSYC 1101</a>	
	6	<a href="#">Any SS</a>	
<b>Core F - Courses</b>	4	<a href="#">Lab Science</a>	<b>a</b>



**Related to Major**

1	<a href="#">CS 1100</a>	
3	<a href="#">CS 1331</a>	c
3	<a href="#">CS 1332</a>	c
3	<a href="#">CS 2050</a> or <a href="#">CS 2051</a>	c
4	<a href="#">MATH 2605</a>	

**Major Requirements**

3	<a href="#">CS 2340</a>	c
3	<a href="#">CS 4001</a> or <a href="#">CS 4002</a>	c

**Junior Design**

**Option 1**

6	LMC 3432 and LMC 3431 and CS 3311 and CS 3312	c
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**Option 2**

4	<a href="#">CS 4980</a>	C
2	<a href="#">LMC 4701</a> and <a href="#">LMC 4702</a>	C

**Option 3**

5	To be scribed once ECE VIP numbers are official	C,e
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**Concentration**

4	<a href="#">CS 2110</a>	c
4	<a href="#">CS 2200</a>	c
3	<a href="#">CS 3251</a>	c
2	<a href="#">ECE 2031</a>	c
4	<a href="#">PSYC 2015</a>	c
4	<a href="#">CS 3651</a> or <a href="#">ECE 4185</a>	c
3	<a href="#">CS 3630</a> or <a href="#">CS 4261</a> or <a href="#">CS 4605</a>	c, d
3	<a href="#">CS 3240</a> or <a href="#">CS 3510</a> or <a href="#">CS 3511</a>	c
3	<a href="#">PSYC 2210</a> or <a href="#">PSYC 2760</a> or <a href="#">PSYC 3040</a>	c
6	<a href="#">CS 3750</a> or <a href="#">CS 3790</a> or <a href="#">CS 4660</a>	c
3	<a href="#">CS 4460</a> or <a href="#">CS 4470</a> or <a href="#">CS 4605</a> or <a href="#">CS 4625</a>	c, d

**Other Required Courses**

3	<a href="#">MATH 3012</a>	
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3 [MATH 3215](#) or [MATH 3670](#) or [CEE 3770](#) or [ISYE 3770](#) or ([ISYE 2027](#) and [ISYE 2028](#))

<b>Free Electives</b>	6	Free Electives	<b>d</b>
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**TOTAL:** 126

**Pass-fail only allowed for Free Electives (max six hours ), CS 1100, and CS 1171 (if required)**

## NOTES

**a** = Two of three lab sciences MUST be a sequence.

**c** = C-minimum required

**d** = If CS 4605 is successfully completed, both requirements are fulfilled, and three credits are added to Free Electives.

**e** = 4 hours VIP must be taken at the 3000/4000 level

### 6. Administrative Items

- a. Dr. Colin Potts led discussion on what constitutes an Ethics course and how new Ethics courses should be approved. The Registrar's Office was asked to follow up on information about which units use the list in the Catalog and which don't as well as to provide the actual list of courses in the Catalog that have been approved to date. After some review is done, a determination will be made about whether the General Education Subcommittee or another entity such as the Provost's Curriculum Committee should have management of this list and how the ethics requirements are met at Tech. Follow-up will occur at a future meeting.
- b. Dr. Singleton (PSYC) provided an updated syllabus for PSYC 4025 as was requested during the review of the BS degree modification. It was determined that an email vote would likely be sufficient. The Registrar was asked to send the material to the list and call for an email vote on it. The vote would call for approval of the course as well as its inclusion in the degree modification if approved.

Adjourned,

Reta Pikowsky  
Registrar