

Institute Undergraduate Curriculum Committee
Academic Matters and Appeals (Full Committee)
Minutes

Tuesday, April 12, 2016

Present: Mayor(ME), Scott (CEE), Hollengreen (ARCH), Coyle (ECE), Economou (ARCH), Goodisman (BIOL), Parsons (CoB), Pikowsky (Registrar), Senf (LMC), Shepler (CHEM-Executive Board Liaison), Smith (ME), Yaszek (LMC), Zhou (ISyE)

Visitors: Hodges (Registrar), Cole (Registrar), Cook (MSE), Tucker (ARCH), Kim (ARCH), Rinehart (CoA), Hodges (CAE), Baron (CHEM), Budd (ID), Balog (APPH), Girardot (VPUE), Luetzgen (ChBE)

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. Notification or approval by the Southern Association of Colleges and Schools-CoC may also be required.

Note: All votes are unanimous unless specifically noted otherwise.

Administrative Items:

1. Proposal 4952 (New Courses CEE 3051): CEE 3050 was approved at March 29 meeting. This course number had to be updated (approved new number CEE 3051) since CEE 3050 had already been used as Structural Analysis (ended 200005).
2. A motion was made to approve a degree posthumously for a student in the College of Sciences who was on track to graduate in May 2016. The motion was seconded and approved.

Academic Items

1. A motion was made *to acknowledge without concern* a request from the School of Chemistry & Biochemistry for a pre-requisite modification. The motion was seconded and approved.

CHEM 3211

Current: CHEM 2380 with minimum grade of D and
CHEM 2211 with minimum grade of D and
PHYS 2212 with minimum grade of D

Proposed: CHEM 2211 with minimum grade of D

CHEM 4581

Current: CHEM 4511 with a minimum grade of D and
CHEM 3371 with a minimum grade of D or
CHEM 3380 with a minimum grade of D

Proposed: CHEM 4511 with a minimum grade of D and
CHEM 3211 with a minimum grade of D

2. A motion was made to *acknowledge without concern* a request from the School of Materials Science & Engineering for a pre-requisite modification. The motion was seconded and approved.

Pre-requisite modification – Acknowledged without Concern

MSE 3001

Current: MSE 2001 and (MATH 2403 or MATH 24X3 or MATH 2414 or MATH 2602 or MATH 2552 or MATH 2x52 or MATH 2562) and CHEM 3411

Proposed: MSE 2001 and (MATH 2403 or MATH 24X3 or MATH 2414 or MATH 2602 or MATH 2552 or MATH 2x52 or MATH 2562)

A motion was made to *approve* a request from the School of Materials Science & Engineering for a degree modification. The motion was seconded and approved.

This vote was not unanimous. There were 10 votes to approve and 1 vote to deny.

Degree Modification - APPROVED

Bachelor of Science in Materials Science & Engineering (Polymer and Fiber concentration)

Note: There was a concern from the Committee regarding a 4000-level course being listed as a pre-requisite for a 3000-level course. This is a result of how the courses have operated in the past. It was noted that perhaps the 4000-level class should be renumbered to a lower level to have this association make sense.

Overview

ME 3340, *Fluid Mechanics*, 3-0-3, was a required course in the Polymer & Fiber Engineering – Fiber Track curriculum, and upon merger of the PFE and MSE curricula in 2011, it was carried forward into the new MSE curriculum as a required course in the Polymer & Fiber Materials Concentration. ME 3340 is currently a prerequisite for two additional required courses in the P&FM Concentration, MSE 3225, *Rheology*, 3-0-3 (direct prereq) and MSE 3230, *Polymer & Fiber Processing*, 3-0-3 (cascade prereq, with MSE 3225 being the direct prereq). MSE students taking ME 3340 in recent years feel that they are at a disadvantage in competing with their ME classmates, as the two groups take different prerequisite courses to gain entry into the course. In addition, although both MSE 3225 and 3230 are included in the optional course lists for both the Structural & Functional Materials and Biomaterials, very few of the MSE majors beyond P&FM students elect the two courses because they require ME 3340 as a prerequisite, which they could only count as a Free Elective towards their degree. The MSE faculty is thus proposing to **drop** ME 3340 as a required course in the Polymer & Fiber Materials Concentration.

The remaining fluids areas that are specific to polymer rheology and processing will be partially incorporated in the existing section of MSE 3225 and the rest into the existing section of MSE 3230. Prerequisites for MSE 3225 and MSE 3230 will now be listed as:

MSE 3225, *Rheology* CHBE 3200 or MSE 3210

MSE 3230, *Polymer & Fiber Proc.* MSE 3225 and MSE 4775

***See next item for proposal information regarding pre-requisite modifications.**

Degree Requirements

CURRENT

Polymer & Fiber Materials Concentration

<http://www.catalog.gatech.edu/colleges/coe/mse/ugrad/bsmse/bsmse-pfm.php>

BS in Materials Science and Engineering - Polymer & Fiber Materials 2015 - 2016 Degree Requirements

	3	MSE 4410	
	3	MSE 4420	
	3	MSE 4775	
Non-Major Requirements	2	COE 2001	
	3	COE 3001	
	2	ECE 3710	
	1	ECE 3741	
	1	ISYE 3025	
Polymer & Fiber Materials Concentration	3	ME 3340	
	3	MSE 3225	
	3	MSE 3230	
	3	MSE 4140	
	3	MSE 3220 or MSE 4025 or MSE 4761	
Free Electives	5	Free Electives	
TOTAL:	132		

Pass-fail only allowed for Free Electives, Humanities, and Social Sciences.

PROPOSED

Polymer & Fiber Materials Concentration

<http://www.catalog.gatech.edu/colleges/coe/mse/ugrad/bsmse/bsmse-pfm.php>

BS in Materials Science and Engineering - Polymer & Fiber Materials 2016-17 Degree Requirements

	3	MSE 4410	
	3	MSE 4420	
	3	MSE 4775	
Non-Major Requirements	2	COE 2001	
	3	COE 3001	
	2	ECE 3710	
	1	ECE 3741	
	1	ISYE 3025	
Polymer & Fiber Materials Concentration	3	ME 3340 (proposal 4972)	
	3	MSE 3225	
	3	MSE 3230	
	3	MSE 4140	
	6	ME 1770 or MSE 3220 or MSE 4025 or MSE 4230 or MSE 4335 or MSE 4791 or MSE 4793 or MSE 4761 (proposal 4969 and 4970)	

Free Electives	5	Free Electives	
TOTAL:	132		

Pass-fail only allowed for Free Electives, Humanities, and Social Sciences.

A motion was made to *approve* a request from the School of Materials Science & Engineering for pre-requisite modification. The motion was seconded and approved.

PRE-REQUISTE MODIFICATIONS – APPROVED

Proposal 4972 also referenced pre-requisite modifications that would need to be completed since ME 3340 was being discounted from the program as a requirement.

Post Meeting Follow-up: A new proposal was created to document the pre-requisite modifications. A new version of degree requirements was updated and reloaded to IUCC site.

MSE 3225

Current: ChBE 3200 with a minimum grade of D or
ME 3340 with a minimum grade of D

Proposed: ChBE 3200 with a minimum grade of D or
MSE 3210 with a minimum grade of D

MSE 3230

Current: MSE 3210 with a minimum grade of D and
MSE 3225 with a minimum grade of D and
MSE 4775 with a minimum grade of D

Proposed: MSE 3225 with a minimum grade of D and
MSE 4775 with a minimum grade of D

A motion was made to *approve* a request from the School of Materials Science & Engineering for a degree modification. The motion was seconded and approved.

This vote was not unanimous. There were 10 votes to approve and 1 vote to deny.

Degree Modification - APPROVED with Edits (see notes at bottom for edits)

Bachelor of Science in Materials Science & Engineering (All concentrations)

Overview

MSE graduating seniors who are beginning their careers with industry with the BS degree have expressed a need for CAD/CAE training in their Exit Interviews over the past several years, and many have reported that companies are expressly asking them in job interviews if they have such training. In addition, our 2014 ABET reviewer and APR review team both recommended in their reports that we include the area as an option for MSE students. Finally, the MSE Undergraduate Student Advisory Committee recommended that we add ME 1770 as directed elective course under the three Concentrations rather than as a required course, as the students entering post-graduate programs (PHD, Medical School, etc.) did not value the course as much as their industry-bound peers, preferring to elect another MSE course instead.

Degree Requirements

CURRENT

Structural & Functional Materials Concentration

<http://www.catalog.gatech.edu/colleges/coe/mse/ugrad/bsmse/bsmse-sfm.php>

BS in Materials Science and Engineering - Structural & Functional Materials 2015-16 Degree Requirements

Structural & Functional Materials Concentration	3	MSE 4002
	3	MSE 4006
	3	MSE 4010
	6	MSE 3012 or MSE 3220 or MSE 3225 or MSE 3230 or MSE 4004 or MSE 4025 or MSE 4140 or MSE 4330 or MSE 4335 or MSE 4751 or MSE 4754 or MSE 4755 or MSE 4761 or MSE 4791 or MSE 4793
Free Electives	4	Free Electives
TOTAL:	132	

CURRENT

Polymer & Fiber Materials Concentration

<http://www.catalog.gatech.edu/colleges/coe/mse/ugrad/bsmse/bsmse-pfm.php>

BS in Materials Science and Engineering - Polymer & Fiber Materials 2015-16 Degree Requirements

Polymer & Fiber Materials Concentration	3	ME 3340
	3	MSE 3225
	3	MSE 3230
	3	MSE 4140
	3	MSE 3220 or MSE 4025 or MSE 4761
Free Electives	5	Free Electives
TOTAL:	132	

CURRENT

Biomaterials Concentration

<http://www.catalog.gatech.edu/colleges/coe/mse/ugrad/bsmse/bsmse-b.php>

BS in Materials Science and Engineering - Biomaterials 2015-16 Degree Requirements

Biomaterials Concentration	4	BIOL 1510
	3	MSE 4002
	3	MSE 4006
	3	MSE 4751
	3	MSE 3012 or MSE 3220 or MSE 3225 or MSE 3230 or MSE 4004 or MSE 4010 or MSE 4025 or MSE 4140 or MSE 4330 or MSE 4335 or MSE 4754 or MSE 4755 or MSE 4761 or MSE 4791 or MSE 4793
Free Electives	4	Free Electives
TOTAL:	132	

PROPOSED

Structural & Functional Materials Concentration

<http://www.catalog.gatech.edu/colleges/coe/mse/ugrad/bsmse/bsmse-sfm.php>

BS in Materials Science and Engineering - Structural & Functional Materials 2016-17 Degree Requirements

	6	ME 1770 or MSE 3012 or MSE 3220 or MSE 3225 or MSE 3230 or MSE 4004 or MSE 4025 or MSE 4140 or MSE 4330 or MSE 4335 or MSE 4751 or MSE 4754 or MSE 4755 or MSE 4761 or MSE 4791 or MSE 4793
Free Electives	4	Free Electives
TOTAL:	132	

PROPOSED

Polymer & Fiber Materials Concentration

<http://www.catalog.gatech.edu/colleges/coe/mse/ugrad/bsmse/bsmse-pfm.php>

BS in Materials Science and Engineering - Polymer & Fiber Materials 2016-17 Degree Requirements

Polymer & Fiber Materials Concentration	3	ME 3340
	3	MSE 3225
	3	MSE 3230
	3	MSE 4140
	3	ME 1770 or MSE 3220 or MSE 4025 or MSE 4761
Free Electives	5	Free Electives
TOTAL:	132	

PROPOSED

Biomaterials Concentration

<http://www.catalog.gatech.edu/colleges/coe/mse/ugrad/bsmse/bsmse-b.php>

BS in Materials Science and Engineering - Biomaterials 2016-17 Degree Requirements

Biomaterials Concentration	4	BIOL 1510
	3	MSE 4002
	3	MSE 4006
	3	MSE 4751
	3	ME 1770 or MSE 3012 or MSE 3220 or MSE 3225 or MSE 3230 or MSE 4004 or MSE 4010 or MSE 4025 or MSE 4140 or MSE 4330 or MSE 4335 or MSE 4754 or MSE 4755 or MSE 4761 or MSE 4791 or MSE 4793
Free Electives	4	Free Electives
TOTAL:	132	

Note: Committee members wish to have a note added to the Catalog that would advise students that taking ME 1770 early in their program of student would be expected if they wish to enter the work force and do not intend to pursue graduate study immediately upon graduation. Selection of this course as a directed elective makes sense depending upon the student's plans after graduation and as a 1000-level course should be taken early in the program. The Committee recommended that ME 1770 might be suggested as a Free Elective for

students as opposed to a directed elective option. It was suggested that a footnote, to be worked out with the School as far as content be added to the Catalog that would explain this course and how it might be used.

Example:

PROPOSED

Biomaterials Concentration

<http://www.catalog.gatech.edu/colleges/coe/mse/ugrad/bsmse/bsmse-b.php>

**BS in Materials Science and Engineering - Biomaterials 2016-17
Degree Requirements**

Biomaterials Concentration	4	BIOL 1510	
	3	MSE 4002	
	3	MSE 4006	
	3	MSE 4751	
	3	MSE 3012 or MSE 3220 or MSE 3225 or MSE 3230 or MSE 4004 or MSE 4010 or MSE 4025 or MSE 4140 or MSE 4330 or MSE 4335 or MSE 4754 or MSE 4755 or MSE 4761 or MSE 4791 or MSE 4793	
Free Electives	4	Free Electives	e
TOTAL:	132		

e = ME 1770 is recommended as a Free Elective, depending upon whether the student wishes to enter the work force directly after graduation or intends to pursue a graduate degree. Consultation with the academic advisor is highly recommended.

A motion was made to *table* a request from the School of Materials Science & Engineering for a new course. The motion was seconded and approved.

New Course – TABLED

MSE 4230: Industrial Controls in Manufacturing

3-0-3

Note: The Committee noted the syllabus needed to be revised to address services offer by the Office of Disability Services (formerly ADAPTS), grading assessment details, and statement on the Tech Honor Code. There was also discussion as to whether this course is actually needed since there is content in IE and ME that is likely duplicative. Also, some units wondered whether a lab component could be offered with help from those other Schools. It was noted that one of the things this proposal would attempt to do would be to offer a non-lab course option to

students. It was unclear whether this was an appropriate action or not. The fact that students would prefer a non-lab course option does not mean that it makes sense to create this 3-credit non-lab course.

A motion was made to *table* a request from the School of Materials Science & Engineering for a degree modification. The motion was seconded and approved.

Degree Modification - TABLED

Bachelor of Science in Materials Science & Engineering (All concentrations)

Overview

The cross-listed MSE (PTFE)/ECE 4761, 2-3-3, was implemented in the mid-90's by two former faculty members in then PTFE and ECE (Prof. Lew Dorrity was the PTFE lead). Initially the course was equally taught, and the lab component was conducted in an ECE laboratory equipped to handle the experiments. However, after Prof. Dorrity left GIT in 2003 followed by the ECE partner, PTFE and then MSE assumed total teaching responsibility for the 4761 course, and the access to the ECE laboratory facility was lost. Currently, the laboratory component of the course has become untenable, with MSE's Prof. Donggang Yao conducting only two experiments with the class on inadequate equipment in his research laboratory. ECE still allows the course as an elective, but does not include it in the core curriculum. The request is thus to drop the MSE 4761 2-3-3 course and by expanding the lecture portion, convert it into a 3-0-3 format with a new number, **MSE 4230, *Industrial Controls in Manufacturing***. The ABET syllabus for the proposed MSE 4230 is attached. As currently with MSE 4761, MSE 4230 will be included in the optional course listings of all three MSE curriculum Concentrations: Structural & Functional Materials, Polymer & Fiber Materials and Biomaterials.

Degree Requirements

Structural & Functional Materials Concentration

<http://www.catalog.gatech.edu/colleges/coe/mse/ugrad/bsmse/bsmse-sfm.php>

Structural & Functional Materials Concentration	3	MSE 4002
	3	MSE 4006
	3	MSE 4010

	6	MSE 3012 or MSE 3220 or MSE 3225 or MSE 3230 or MSE 4004 or MSE 4025 or MSE 4140 or MSE 4330 or MSE 4335 or MSE 4751 or MSE 4754 or MSE 4755 or MSE-4761 MSE 4230 or MSE 4791 or MSE 4793	
Free Electives	4	Free Electives	d
TOTAL:	132		

BS in Materials Science and Engineering - Structural & Functional Materials 2015 - 2016 Degree Requirements

Polymer & Fiber Materials Concentration

<http://www.catalog.gatech.edu/colleges/coe/mse/ugrad/bsmse/bsmse-pfm.php>

BS in Materials Science and Engineering - Polymer & Fiber Materials 2015 - 2016 Degree Requirements

Polymer & Fiber Materials Concentration	3	ME 3340	
	3	MSE 3225	
	3	MSE 3230	
	3	MSE 4140	
	3	MSE 3220 or MSE 4025 or MSE-4761 MSE 4230	
Free Electives	5	Free Electives	d
TOTAL:	132		

Biomaterials Concentration

<http://www.catalog.gatech.edu/colleges/coe/mse/ugrad/bsmse/bsmse-b.php>

BS in Materials Science and Engineering - Biomaterials 2015 - 2016 Degree Requirements

Biomaterials Concentration	4	BIOL 1510	
	3	MSE 4002	
	3	MSE 4006	
	3	MSE 4751	
	3	MSE 3012 or MSE 3220 or MSE 3225 or MSE 3230 or MSE 4004 or MSE 4010 or MSE 4025 or MSE 4140 or MSE 4330 or MSE 4335 or MSE 4754 or MSE 4755 or MSE-4761 MSE 4230 or MSE 4791 or MSE 4793	
Free Electives	4	Free Electives	d
TOTAL:	132		

3. A motion was made to *approve* a request from the School of Architecture for new courses. The motion was seconded and approved.

New Courses - APPROVED upon contingency

ARCH 1009: Fundamentals of Arch I	1-9-4
ARCH 1010: Fundamentals of Arch II	1-9-4
ARCH 1060: Intro to Design and Built Environment	3-0-3
ARCH 3404: Arch Design Studio III	1-9-4
ARCH 3405: Arch Design Studio IV	1-9-4
ARCH 4404: Arch Design Studio V	1-9-4
ARCH 4405: Arch Design Studio VI	1-9-4

Note: All of the syllabi should be updated to include adapted learning outcomes for specific courses instead of program learning outcomes. Also, it was suggested that the “attendance” language be removed as a component of the “participation” grade.

A motion was made to *approve* a request from the School of Architecture to deactivate courses. The motion was seconded and approved:

Deactivate Courses - APPROVED

ARCH 3011
ARCH 3012
ARCH 4011
ARCH 4012

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

Degree Modification – APPROVED

Bachelor of Science in Architecture

Overview

The basis of these proposed changes is to increase flexibility in the curriculum but not lose the rigor. Retooling the curriculum will increase our competitiveness among our peer institutions and establish a rigorous and unique educational

profile grounded in design, science and technology for our undergraduate students in preparation for future graduate study and professional employment.

Implementing distribution requirements for the COA electives will continue to expose students to a broader range of topics but will also ensure a balanced curricular path for the students.

- Create ARCH 1060 and revise content to align with History/Theory sequence.
 - This will foster stronger connection between this course and the freshman studio sequence.
 - Since the School of Architecture curriculum no longer includes the Common First Year, establishing ARCH 1060 will clarify the content and align it closer to the curriculum.
- Create ARCH 1009, ARCH 1010
 - This clarifies the change from Common First Year for the freshman studios.
- Increase credit hours in ARCH1009 from 3 credits to 4 credits.
 - The additional credit hour will bring this class in line with the ARCH 1010.
- Create ARCH 3404, ARCH3405, ARCH 4404, ARCH 4405
 - The credit hours will be reduced from 5 credits to 4 credits in order to allow students to enroll in COA electives to fulfill distribution requirements.
- Redistribute electives between free electives and COA electives.
 - Increase COA electives to 15 credits (includes the 4 credits gained)
 - Identify distribution requirements in technology, history/theory, and communication/representation for COA electives in fulfillment of the degree. There will be a menu of architectural distribution electives. **The list of distribution electives will be reviewed at a minimum of every 2 years to ensure that the topics remain relevant and responsive to current trends in the profession. Other courses may be proposed for approval in distribution areas by the Chair, School of Architecture.** See addendum for list for current electives under each category.
 - Technology (min. of 3 hrs)
 - History/Theory (min. of 3 hrs)
 - Communication/Representation (min. of 3 hrs)
 - Reduce free electives to 15

CURRENT DEGREE

Courses	COURSE TYPE	COURSE HRS	LOCATION	MODALITY	TOTAL SEM HRS
COA 1011 - Fundamental Design I	R	3	GT-ATL	CL	3
COA 1012 - Fundamental Design II	R	4	GT-ATL	CL	4
Arch 2011 - Architectural Design Studio I	R	4	GT-ATL	CL	4

Arch 2012 - Architectural Design Studio II	R	4	GT-ATL	CL	4
Arch 3011 - Architectural Design Studio III	R	5	GT-ATL	CL	5
Arch 3012 - Architectural Design Studio IV	R	5	GT-ATL	CL	5
Arch 4011 - Architectural Design Studio V	R	5	GT-ATL	CL	5
Arch 4012 - Architectural Design Studio VI	R	5	GT-ATL	CL	5
COA 1060 - Introduction to Design and Built Environment	R	3	GT-ATL	CL	3
Arch 2111 - History of Architecture I	R	3	GT-ATL	CL	3
Arch 2112 - History of Architecture II	R	3	GT-ATL	CL	3
Arch 2211 - Construction Technology I	R	3	GT-ATL	CL	3
Arch 2472 - Media and Modeling I	R	3	GT-ATL	CL	3
Arch 2474 - Media and Modeling II	R	3	GT-ATL	CL	3
Arch 3231 - Environmental Systems I	R	3	GT-ATL	CL	3
Arch 4251 - Structures I	R	3	GT-ATL	CL	3
CS 1301 - Computing	R	3	GT-ATL	CL	3
ENG 1101 - English Composition I	R	3	GT-ATL	CL	3
ENG 1102 - English Composition II	R	3	GT-ATL	CL	3
MATH 1501 - Calculus I	R	4	GT-ATL	CL	4
MATH 1502 - Integrated Calculus	R	4	GT-ATL	CL	4
PHY 2211 - Physics I	R	4	GT-ATL	CL	4
APPH 1040 - Wellness	R	2	GT-ATL	CL	2
HIST 2111 OR HIST 2112 OR INT 1200 OR POL 1101 PUBP3000	E	3	GT-ATL	CL	3
Social Science Elective	E	3	GT-ATL	CL	3
Social Science Elective	E	3	GT-ATL	CL	3
Science Elective	E	4	GT-ATL	CL	4
HTS 3011 or Arch 4126	R	3	GT-ATL	CL	3
Humanities Elective	E	6	GT-ATL	CL	6
COA Electives	R	9	GT-ATL	CL	9
Free Electives	R	18	GT-ATL	CL	18

**Total Required for
Degree**

131

PROPOSED DEGREE

Courses	COURSE TYPE	COURSE HRS	LOCATION	MODALITY	TOTAL SEM HRS
Arch 1009 - Fundamental Design I	R	4	GT-ATL	CL	4
Arch 1010 - Fundamental Design II	R	4	GT-ATL	CL	4
Arch 2011 - Architectural Design Studio I	R	4	GT-ATL	CL	4
Arch 2012 - Architectural Design Studio II	R	4	GT-ATL	CL	4
Arch 3404 - Architectural Design Studio III	R	4	GT-ATL	CL	4
Arch 3405 - Architectural Design Studio IV	R	4	GT-ATL	CL	4
Arch 4404 - Architectural Design Studio V	R	4	GT-ATL	CL	4
Arch 4405 - Architectural Design Studio VI	R	4	GT-ATL	CL	4
Arch 1060 - Introduction to Design and Built Environment	R	3	GT-ATL	CL	3
Arch 2111 - History of Architecture I	R	3	GT-ATL	CL	3
Arch 2112 - History of Architecture II	R	3	GT-ATL	CL	3
Arch 2211 - Construction Technology I	R	3	GT-ATL	CL	3
Arch 2472 - Media and Modeling I	R	3	GT-ATL	CL	3
Arch 2474 - Media and Modeling II	R	3	GT-ATL	CL	3
Arch 3231 - Environmental Systems I	R	3	GT-ATL	CL	3
Arch 4251 - Structures I	R	3	GT-ATL	CL	3
CS 1301 - Computing	R	3	GT-ATL	CL	3
ENG 1101 - English Composition I	R	3	GT-ATL	CL	3
ENG 1102 - English Composition II	R	3	GT-ATL	CL	3
MATH 1551 - Calculus I	R	2	GT-ATL	CL	2
MATH 1552 - Integrated Calculus	R	4	GT-ATL	CL	4
MATH 1553 - Linear Algebra	R	2	GT-ATL	CL	2
PHY 2211 - Physics I	R	4	GT-ATL	CL	4
APPH 1040 - Wellness	R	3	GT-ATL	CL	2
HIST 2111 OR HIST 2112 OR INTA 1200 OR POL 1101					
PUBP 3000	E	3	GT-ATL	CL	3
Social Science Elective	E	3	GT-ATL	CL	3
Social Science Elective	E	3	GT-ATL	CL	3

HTS 3011/ARCH 4126	E	3	GT-ATL	CL	3
Science Elective	E	4	GT-ATL	CL	4
Free Humanities	E	6	GT-ATL	CL	6
Free Electives	R	15	GT-ATL	CL	15
COA Electives	R	15	GT-ATL	CL	15
Total Required for Degree					131

- A motion was made to approve a request from the School of Industrial Design for new courses. The motion was seconded and approved.

New Courses – APPROVED upon contingency

ID 1011: Industrial Design Fundamentals 1	1-3-2
ID 1012: Industrial Design Fundamentals 2	1-3-2
ID 1101: Intro to Industrial Design 1	1-0-1
ID 1102: Intro to Industrial Design 2	1-0-1
ID 1401: Intro to Graphic Communications 1	0-3-1
ID 1402: Intro to Graphic Communications 2	0-3-1
ID 1418: Intro to Sketching and Modeling 1	0-3-1
ID 1419: Intro to Sketching and Modeling 2	0-3-1

Note: All of the syllabi should include adapted learning outcomes to specific course instead of program learning outcomes, updated information on the Office of Disability Statement, and the Honor Code Statement.

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

Degree Modification – APPROVED

Bachelor of Science in Industrial Design

Overview

These proposals will align first year industrial design courses with the strategies introduced in the former BSID – Bachelor of Science in Industrial Design degree modification of 2011. These proposals shift course content from “all-encompassing” design studios to a more articulated series of skills-based courses to be offered separately. This will provide more rigorous and consistent content

that will then be integrated into the design development of projects carried out in the related design studio courses.

The revised first year curriculum will allow students to learn essential industrial design skills earlier, and create opportunities for more advanced learning in subsequent courses.

These proposals also lay the groundwork for future course revisions that will allow students to focus on their choice of technical strength in their sophomore year instead of the junior year, as is the present case. The area of strengths include:

- Design for Health & Well-Being
- Interactive Product Design
- Product Development & Innovation

Deactivate these courses:

- COA 1060 Introduction to the Designed and Built Environment (3 credits)
- COA 1011 Fundamentals of Design and the Built Environment I (3 credits)
- COA 1012 Fundamentals of Design and the Built Environment II (4 credits)

Add these courses:

- ID 1011 Industrial Design Fundamentals 1 (2 credits)
- ID 1401 Introduction to Graphic Communications 1 (1 credit)
- ID 1418 Introduction to Sketching & Modeling 1 (1 credit)
- ID 1101 Introduction to Industrial Design 1 (1 credit)
- ID 1012 Industrial Design Fundamentals 2 (2 credits)
- ID 1402 Introduction to Graphic Communications 2 (1 credit)
- ID 1419 Introduction to Sketching & Modeling 2 (1 credit)
- ID 1102 Introduction to Industrial Design 2 (1 credit)

CURRENT DEGREE

Courses	COURSE TYPE	COURSE HRS	LOCATION	MODALITY	TOTAL SEM HRS
COA 1011 - Fundamental Design I	R	3	GT-ATL	CL	3
COA 1012 - Fundamental Design II	R	4	GT-ATL	CL	4
Arch 2011 - Architectural Design Studio I	R	4	GT-ATL	CL	4
Arch 2012 - Architectural Design Studio II	R	4	GT-ATL	CL	4
Arch 3011 - Architectural Design Studio III	R	5	GT-ATL	CL	5
Arch 3012 - Architectural Design Studio IV	R	5	GT-ATL	CL	5

Arch 4011 - Architectural Design Studio V	R	5	GT-ATL	CL	5
Arch 4012 - Architectural Design Studio VI	R	5	GT-ATL	CL	5
COA 1060 - Introduction to Design and Built Environment	R	3	GT-ATL	CL	3
Arch 2111 - History of Architecture I	R	3	GT-ATL	CL	3
Arch 2112 - History of Architecture II	R	3	GT-ATL	CL	3
Arch 2211 - Construction Technology I	R	3	GT-ATL	CL	3
Arch 2472 - Media and Modeling I	R	3	GT-ATL	CL	3
Arch 2474 - Media and Modeling II	R	3	GT-ATL	CL	3
Arch 3231 - Environmental Systems I	R	3	GT-ATL	CL	3
Arch 4251 - Structures I	R	3	GT-ATL	CL	3
CS 1301 - Computing	R	3	GT-ATL	CL	3
ENG 1101 - English Composition I	R	3	GT-ATL	CL	3
ENG 1102 - English Composition II	R	3	GT-ATL	CL	3
MATH 1501 - Calculus I	R	4	GT-ATL	CL	4
MATH 1502 - Integrated Calculus	R	4	GT-ATL	CL	4
PHY 2211 - Physics I	R	4	GT-ATL	CL	4
APPH 1040 - Wellness	R	2	GT-ATL	CL	2
HIST 2111 OR HIST 2112 OR INT 1200 OR POL 1101					
PUBP3000	E	3	GT-ATL	CL	3
Social Science Elective	E	3	GT-ATL	CL	3
Social Science Elective	E	3	GT-ATL	CL	3
Science Elective	E	4	GT-ATL	CL	4
HTS 3011 or Arch 4126	R	3	GT-ATL	CL	3
Humanities Elective	E	6	GT-ATL	CL	6
COA Electives	R	9	GT-ATL	CL	9
Free Electives	R	18	GT-ATL	CL	18

**Total Required for
Degree**

131

PROPOSED DEGREE

Courses	Course Type	Course Hours	Location	Modality	Total Semester hours
Wellness APPH 1040 or APPH 1050	R	2	GT-ATL	CL	2
Core A ENGL 1101	R	3	GT-ATL	CL	3
Core A ENGL 1102	R	3	GT-ATL	CL	3
Core A MATH 1551	R	2	GT-ATL	CL	2
Core B CS 1315	R	3	GT-ATL	CL	3
Core C Any Humanities	E	3	GT-ATL	CL	3
Core C COA 2242 History of Art II	R	3	GT-ATL	CL	3
Core D Lab Science	R	4	GT-ATL	CL	4
Core D PHYS 2211	R	4	GT-ATL	CL	4
Core D MATH 1552	R	4	GT-ATL	CL	4
Core D MATH 1553	R	2	GT-ATL	CL	2
Core E HIST 2111 or HIST 2112 of INTA 1200 or POL 1101 or PUBP 3000	R	3	GT-ATL	CL	3
Core E Any SS	R	9	GT-ATL	CL	9
Core F ID 1011 Industrial Design Fundamentals 1	R	2	GT-ATL	CL	2
Core F ID 1401 Introduction to Graphic Communications 1	R	1	GT-ATL	CL	1
Core F ID 1418 Intro to Sketching & Modeling 1	R	1	GT-ATL	CL	1
Core F ID 1101 Introduction to Industrial Design 1	R	1	GT-ATL	CL	1
Core F ID 1012 Industrial Design Fundamentals 2	R	2	GT-ATL	CL	2

Core F ID 1402 Introduction to Graphic Communications 2	R	1	GT-ATL	CL	1
Core F ID 1419 Intro to Sketching & Modeling 2	R	1	GT-ATL	CL	1
Core F ID 1102 Introduction to Industrial Design 2	R	1	GT-ATL	CL	1
Core F ID 2021 ID Studio 1	R	4	GT-ATL	CL	4
Core F ID 2022 ID Studio 2	R	4	GT-ATL	CL	4
Major Requirements					
ID 2202 History of Modern ID	R	3	GT-ATL	CL	3
ID 2320 Human Factors in Design	R	3	GT-ATL	CL	3
ID 2401 Visual Design Thinking	R	3	GT-ATL	CL	3
ID 3031 Health Des Studio 1 or ID 3041 Product Dev Studio 1 or ID 3051 Interactive ID Studio 1	R	4	GT-ATL	CL	4
ID 3032 Health Des Studio2 or ID 3042 Product Dev Studio 2 or ID 3052 Interactive ID Studio 2	R	4	GT-ATL	CL	4
ID 3103 Indust Dsgn Computing I	R	3	GT-ATL	CL	3
ID 3104 Indust Dsgn Computing II	R	3	GT-ATL	CL	3
ID 3301 Materials I	R	3	GT-ATL	CL	3
ID 3302 Materials II	R	3	GT-ATL	CL	3
ID 4061 ID Capstone Des Studio I or ID 4071 Invention Studio 1 or ID 4081 ID/ME Colab Des Studio 1	R	4	GT-ATL	CL	4
ID 4062 ID Capstone Des Studio 2 or ID 4072 Invention Studio 2 or ID 4082 ID/ME Colab Des Studio 2	R	4	GT-ATL	CL	4
ID 3320 Design Methods	R	3	GT-ATL	CL	3
ID 4206 Culture of Objects	R	3	GT-ATL	CL	3
Departmental Electives Any ID course	E	12	GT-ATL	CL	12

Free Electives	E	12	GT-ATL	CL	12
Total Required for Degree					130

- A motion was made to *approve* a request from the College of Architecture for a College name change. The motion was seconded and approved.

College Name Change – APPROVED

The College of Architecture

The College of Architecture is changing the name of the college to the **College of Design** to encompass and better describe the full range of academic offerings by the Schools within the college.

- A motion was made to *deny* a request from the School of Public Policy for a new course. The motion was seconded and denied.

New Course – DENIED

PUBP 4725: Information Security Policies and Strategies 3-0-3

Note: A representative was not in attendance to speak on behalf of the course. The Committee noted that the assessment on the syllabus should be clarified, ‘attendance’ language should be removed from participation grade, the excused absences language should be in compliance with the Institute Excused Absence policy, and the Office of Disability services statement should be updated.

- A motion was made to *approve* a request from the School of Applied Physiology for a new course. The motion was seconded and approved.

New Course – APPROVED with Edits

APPH 4238: Ion Channel Structure, Function and Regulation 3-0-3

Note: The NCP Box 2 should be completed (3-0-3), Box 9 should list APPH 6239 as equivalent. The assessment on the syllabus should total 100%. Dr. Balog indicated that the oral presentation is worth 10% instead of 15%.

- A motion was made to *approve* a request from the Provost’s Subcommittee for a new course. The motion was seconded and approved.

New Course – APPROVED with Edits

GT 2000: Transfer Student Seminar

1-0-1

Note: It was requested by the Committee that “attendance” should be removed from participation grade.

9. 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 – APPROVED with Edits

CHBE 4767: Pulp and Paper Lab

1-6-3

Note: The Committee noted the course assessment should be updated with a description of what the “other assignments” actually entail, “attendance” language should be removed from participation grade, and the last line that indicates the syllabus is subject to change should be removed. A better way to handle this is to state that the weekly assignments are provided as an example.

Update: An edited syllabus was submitted and uploaded on 4/12/2016 for review.

A motion was made to *approve* a request from the School of Chemical and Biomolecular Engineering for new courses. The motion was seconded and approved.

New Courses – APPROVED

ChBE 4720: Pulp & Paper Manufacturing

3-0-3

ChBE 4730: Emerging Technologies in Forest Bioproducts

3-0-3

Note: These courses were originally proposed as new Special Topics courses to be used in the Certification Modification of the Pulp & Paper Certificate. The Committee decided to approve them with permanent numbers since the content had been taught in other existing courses. These courses are planned to be cross-listed with ME versions. **The Registrar’s Office will provide the permanent numbers and make the corrections on the NCPs.**

A motion was made to *approve* a request from the School of Chemical and Biomolecular Engineering for a certificate modification. The motion was seconded and approved.

Certificate Modification – APPROVED with Edits

Pulp & Paper Certificate

We request a renaming of the current Pulp and Paper lecture courses. Therefore, these courses are presented as 4803 courses. This request is presented in order to rearrange the course content of the existing undergraduate pulp and paper lecture courses, so that they are more relevant to the existing state of the technology and what is anticipated to transpire in the changing bio-economy.

We propose to change the content of the Fall lecture course, ChBE/ME 4763, Pulping and Chemical Recovery to instead be ChBE/ME 4803, Pulp and Paper Manufacturing; and to change the content of the Spring lecture course, currently ChBE/ME 4803, Biofuels, Bleaching and Papermaking, to instead a new ChBE/ME 4813, Emerging Technologies for Forest Bioproducts. Some content between the two courses switch, while augmenting the quantity of information delivered on current trends and future expectations in the forest bio-economy.

In addition, we are proposing a new permanent course number for the ChBE/ME 4573/4574 Pulp & Paper Lab courses (2 credit hours each) which has been offered one time as a 3-credit hour Special Topics course and we now propose as ChBE/ME 4767 Pulp and Paper Lab (3 credit hours).

In addition, to round out the 12 credit-hour certificate, we have increased the number of credit hours of Independent Research, ChBE/ME 4699 from 2 credit hours to 3 credit hours. This is also consistent with the students' option of using this course for technical credit.

The current Certificate Program can be summarized as follows:

Course Number	Course Title	Credit Hours
ChBE / ME 4763	Pulping and Chemical Recovery	3
ChBE / ME 4803	Biofuels, Bleaching and Papermaking	3
ChBE / ME 4573	Pulp and Paper Lab 1	2
ChBE / ME 4574	Pulp and Paper Lab 2	2
ChBE / ME 4699	Independent Research	2
Total		12

Proposed new certificate program:

Course Number	Course Title	Credit Hours
ChBE 4720 / ME 4803	Pulp and Paper Manufacturing	3
ChBE 4730 / ME 4813	Emerging Technologies in Forest Bioproducts	3
ChBE / ME 4767	Pulp and Paper Lab	3
ChBE / ME 4699	Independent Research	3
Total		12

Note: The Committee suggested to approve the Special Topics courses with permanent numbers since the content of the course had been taught before. See previous item for New Course Proposal information. At this time, only ChBE versions will be updated as the ME version still need academic unit approval. A new version of the certificate requirements has been edited in the proposal packet and uploaded to the IUCC site.

Adjourned,

Reta Pikowsky
Registrar