

Institute Undergraduate Curriculum Committee
Academic Matters (Full Committee)
Tuesday, July 23, 2013

Present: Hollengreen (ARCH), Pikowsky (REG), Senf (LCC), Smith (ME), Goodisman (BIOL), Sankar (AE), Berry (PUBP), Loss (MATH), Mayor (ME), Yaszek (LMC)

Visitors: Laros (REG), Merkousko (REG), Ferri (ME), Wynens (LEAD), Raczynski (CS), Prvulovic (CS)

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 College of Computing for a Degree Modification, a Minor Modification, and to acknowledge Prerequisite Modifications. The motion was seconded and approved.

Degree Modification: Approved

Bachelor of Science in Computing
(Systems and Architecture threaded concentrations)

- Removal of CS 3240 from requirements as this course is going to be sunsetted.
- Addition of CS 4210 to picks as this was erroneously left off when the thread was formed.
- Addition of CS 4220 as the faculty feels this course is consistent with the goals of the Systems & Architecture thread and thus should be in a pick.
- Removal of CS3251 because it is not central to the thread and the Information Internetworking thread covers this. Students who wish this content can take the Systems & Architecture thread and the Information Internetworking thread for their degree path.
- Renaming of two of the three picks to reflect better their content.

(Full BSCS Curriculum pages from ICC web site will be added here when the Minutes are converted to pdf and posted in that location.)

Minor Modification: **Approved**

Minor in Computer Science

- Remove CS 1372 as a prerequisite option for the Devices, Information Internetworks, and Systems & Architecture tracks. All minor tracks will require CS 1331 as prerequisite.
- Under the Devices track remove “ECE students with credit for CS 1372 and ECE 2030 may substitute another CS 3000/4000 level Devices Thread course for CS 2110.” Replace with “ECE students with credit for ECE 2035 and either ECE 2020 or 2030 may substitute one CS 3000/4000 level Devices Thread course for CS 2110 and complete the minor with 16 hours instead of 17”.
- Under the Information Internetworks track remove “ECE students with credit for CS 1372 and ECE 2030 may substitute another CS 3000/4000 level Information Internetworks Thread course for CS 2110.” Replace with “ECE students with credit for ECE 2035 and either ECE 2020 or 2030 may substitute one CS 3000/4000 level Information Internetworks Thread course for CS 2110 and complete the minor with 16 hours instead of 17”.
- Under the Intelligence track remove “ECE students with credit for CS 1372 and ECE 2030 may substitute another CS 3000/4000 level Intelligence Thread course for CS 2110.” Replace with “ECE students with credit for ECE 2035 and either ECE 2020 or 2030 may substitute one CS 3000/4000 level Intelligence Thread course for CS 2110 and complete the minor with 15 hours instead of 16”.
- Under the Media track remove “ECE students with credit for CS 1372 and ECE 2030 may substitute another CS 3000/4000 level Media Thread course for CS 2110.” Replace with “ECE students with credit for ECE 2035 and either ECE 2020 or 2030 may substitute one CS 3000/4000 level Media Thread course for CS 2110/2261 and complete the minor with 18 hours instead of 19”.
- Under the Systems and Architecture track remove “ECE students with credit for CS 1372 and ECE 2030 may substitute another CS 3000/4000 level Systems and Architecture Thread course for CS 2110.” Replace with “ECE students with credit for ECE 2035 and either ECE 2020 or 2030 may substitute one CS 3000/4000 level Systems and Architecture Thread course for CS 2110 and complete the minor with 16 hours instead of 17”.
- Because of the changes to the new Systems & Arch Thread, the Systems and Arch minor will need to reflect the new “pick” names. Under the Systems and Architecture track remove “Required courses: CS 2110, CS 2200, CS 3210, one CS course from Platform Interfaces and one CS course from Computer Architectures” to be updated to “Required courses: CS 2110, CS 2200, CS 3210, one CS course from Systems & Architecture, and one CS course from Advanced Systems and Architecture.”

Reason for these changes: CS 1372 was originally allowed to substitute in the minor because it was a required course for ECE majors. CS 1372 is being removed because under ECE's new curriculum, it is no longer a required course for ECE students.

Because of the changes to the Systems & Architecture Thread, the Systems & Architecture track for the minor will need to change to reflect the names of two new "picks."

(The full Minor Curriculum pages from ICC web site will be added here when the Minutes are converted to pdf and posted in that location.)

Prerequisite Modifications: Acknowledged

Because of the sun-setting of CS 3240, the prerequisites for two CS courses need to be modified. COC requests the removal of the prereq CS 3240 for both CS 4240-Compilers and Interpreters and CS 4392-Programming Languages; the material needed is now covered in CS 2340-Objects and Design. Thus CS 2340 should be added as the new prereq for CS 4240 and CS 4392.

Old Prerequisites

CS 4240- Compilers and Interpreters, prereq is CS 3240

CS 4392-Programining Languages, prereq is CS 3240

NEW Prerequisites

CS 4240- Compilers and Interpreters, prereq is CS 2340

CS 4392-Programining Languages, prereq is CS 2340

2. A motion was made to **approve** a request from the School of Mechanical Engineering for a Degree Modification. The motion was seconded and approved.

Degree Modification: Approved

Bachelor of Science in Mechanical Engineering
(concentration in Nuclear Energy)

We request the establishment of a new Concentration Area in Nuclear Energy. ME students will now have 6 concentration areas to choose from: Automation and Robotics, Thermal, Fluid, and Energy Systems, Mechanics of Materials, Manufacturing, Micro- and Nanoengineering, and Nuclear Energy.

NEW CONCENTRATION PROPOSAL

Complete all of the required classes and the correct number of elective classes in the table listed below. The classes required for the concentration will satisfy the Design Elective, an ME Elective, and 9 hours free electives.

Course Number and Name	Credit Hours	Lab ³	Pre-Requisites	ME Elective	Projected Offering (Fall, Spring or Summer) ¹		
					Fall	Spr	Sum
Required Classes (NRE)		6					
NRE 3301 Radiation Physics	3		Math 1502 Phys 2211		Y	Y	
NRE 3208 Nuclear Reactor Physics I	3		NRE 3301 Math 2403			Y	
Elective Classes (Choose 2, at least one must be an ME class)		6					
Fusion Systems							
NRE 4610 Intro. to Plasma Phys. & Fusion	3		Senior Standing		Y		
ME/NRE 4803 Nuclear Reactor Materials	3		MSE 2001	Y	Y		
ECE 3072 Energy Systems	3		ECE 3710		Y	Y	
ECE 3025 Electromagnetics	3						
Power Systems							
NRE 4214 Reactor Engineering	3		ME3322, ME 3340, ME 3345, NRE 3208		Y		
ME 4340 Applied Fluid Mechanics	3		ME 3345	Y		Y	
ECE 3072 Energy Systems	3		ECE 3710		Y	Y	
Nuclear Reactor Materials							
ME/NRE 4803 Nuclear Reactor Materials	3		MSE 2001	Y	Y		
ME 4214 Mechanical Behavior of Materials	3		COE 3001			Y	
MSE 4010 Environmental Degradation	3		MSE 2001				
Required Classes (ME) Pick one of two below		3					
ME 4315 Energy Systems Analysis and Design	3		ME 2110, ME 3345		Y	Y	
ME 3180 Machine Design	3		ME 2110 COE 3001		Y	Y	Y

Notes This chart is a projected schedule of class offerings and may change at any time. Students should check OSCAR for exact class offerings during each semester. This table should only be used as a guide.

3. A motion was made to **approve** a request from the College of Engineering to acknowledge Prerequisite Modifications. The motion was approved and the change was acknowledged without concern.

Prerequisite Modifications: Acknowledged

COE 2001:

- Currently they are (Math 1502 or Math 15X2) and PHYS 2211.
- We would like to change them to (Math 1502 or Math 15X2 or **Math 1512**) and (PHYS 2211 or **PHYS 2231**).

COE 3001: * indicates a pre-req with concurrency

- Currently they are Math 2403* and COE 2001.
- We would like to change them to (Math 2403* or **Math 24X3 or Math 2413***) and COE 2001.

4. A motion was made to **approve** a request from the Provost Subcommittee for new courses. The motion was seconded and approved.

New Courses: Approved

GT 1201: Exploring Grand Challenges	3-0-3
GT 2201: Grand Challenges Research	0-3-1
GT 2202: Grand Challenges Research	0-6-2

The set of courses is associated with the Grand Challenges Living Learning Community.

Adjourned,

Reta Pikowsky
Registrar