

Institute Graduate Curriculum Committee

Revised Minutes

March 15, 2007

PRESENT: Goldsman (ISyE), Green (MATH), Parker (ISyE), Mark (CoC), Smith (AE), Craig (AE), Pikowsky (REGISTRAR), Martins (MGT), Murray (LCC), Wills (ECE)

VISITORS: Nagao (MGT), Stulberg (INTA), Keene (INTA), McGuire (IAC), Hicks (PUBP), Fujimoto (CoC), Borenstein (PUBP), Gregor (AP), Daniell (APPH), Bradd (REGISTRAR), Kilroy (GRADUATE STUDIES)

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. Items that are marked below with an asterisk (*) require USG and/or BOR approval and are not official until approval has been received. 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.

1. There were no Minutes to be approved.
2. A motion was made to deny the petition of a student requesting a late selective withdrawal from MATH 8803, Fall 2006. The motion to deny the appeal was seconded, but did not pass. The Chair announced that the vote to deny the appeal failed and therefore the appeal stands approved.
3. A motion was made to approve a tabled petition from the previous meeting to admit a student to full graduate standing without a Bachelor's degree. The motion was seconded and approved.
4. A motion was made to approve Subcommittee recommendations on petitions in the following areas.

Reason for Petition	Approved	Denied	Referred to Full Committee	Tabled or No Action
Change sections of course from video to non-video but continue using videos in Library to complete course		1		
Late selective withdrawal from course	2			
Late permission for concurrent enrollment	1			

Reason for Petition	Approved	Denied	Referred to Full Committee	Tabled or No Action
Late withdrawal from school	1			
Late change of grade	1			
Change to full graduate standing from Special and use credits earned in Special status toward degree	1			1 - Graduate Admissions needs to verify information and report to registrar
Change BIOL 9000 to BIOL 8901, Spring 2007				1 - need better explanation from major school
TOTALS:	6	1		2

5. A motion was made to approve a request from the School of Industrial and Systems Engineering to make changes in existing courses and titles and to add new courses. The motion was seconded and approved.

NEW COURSES

ISyE 7682 Convexity 3-0-3

ISyE 7683 Advanced Nonlinear Programming 3-0-3

ISyE 7686 Advanced Combinatorial Optimization 3-0-3

ISyE 7687 Advanced Integer Programming 3-0-3

ISyE 7661 Theory of Linear Inequalities 3-0-3

CHANGED COURSE TITLES

ISyE 6661 Linear Optimization

ISyE 6662 Discrete Optimization

ISyE 6663 Nonlinear Optimization

Note: Former titles were Optimization I, Optimization II, and Optimization III.

6. A motion was made to approve a request from the School of Public Policy for a new graduate certificate, deactivation of courses, renaming of a course, and a new 1-credit course. The motion was seconded and approved.

CERTIFICATE*

Graduate Certificate in Public Policy

DEACTIVATE

- PUBP 6324
- PUBP 6329
- PUBP 6513
- PUBP 6534
- PUBP 6608
- PUBP 6780

RENAME COURSE

PUBP 6320 Sustainable Systems: Concepts and Measures
change to:
PUBP 6320 Sustainable Systems

NEW COURSE

PST 8000 Responsible Conduct of Research 1-0-1

Note: Details of offering the course will be worked out with the Registrar.

7. A motion was made to approve a request from the School of Aerospace Engineering for four new courses. The motion was seconded and approved.

NEW COURSES

AE 6107 Analysis of Aerospace Structural Elements 3-0-3
AE 6451 Electric Propulsion 3-0-3
AE 6551 Cognitive Engineering 3-0-3
AE 6561 Reliable Control Software for Aerospace and Embedded
Applications 3-0-3

8. 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

APPH 6651 Human Anatomy w/lab 3-3-4

Note: Revised course proposal will be provided to the Registrar.

9. A motion was made to approve a request from the School of International Affairs for a new Ph.D. program and two new courses. The motion was seconded and approved.

NEW PROGRAM*

Ph.D. in International Affairs, Science and Technology

NEW COURSES

INTA 7010 Proseminar in International Affairs 3-0-3

INTA 9000 Doctoral Thesis 3-0-3

Note: Approved as corrected during Committee discussion – all grade modes allowed for INTA 9000.

10. A motion was made to approve a request from the College of Management to change the name of the MS-Management of Technology degree, to revise the curriculum accordingly, and for a new course. The motion was seconded and approved.

DEGREE NAME CHANGE*

MS-Management of Technology (MS-MOT)

changed to

MBA-Management of Technology (MBA-MOT)

CURRICULAR CHANGES*

Change the required hours from 36 to 50

Update course titles and descriptions for 4 existing courses

Deactivate 5 courses

Create 5 new replacement courses

Create 4 new courses

DEACTIVATE

MOT 6101

MOT 6108

MOT 6113

MOT 6120

MOT 6121

NEW REPLACEMENT COURSES

MOT 6124 Business and Leadership Skills 3-0-3
MOT 6126 International Issues in the Management of Technology 4-0-4
MOT 6130 Management of Technology Project I 0-9-3
MOT 6131 Management of Technology Project II 0-9-3
MOT 6125 Creating Technology Ventures 3-0-3

Note: Hours of credit corrected as discussed by the Committee.

NEW COURSES

MOT 6127 Building Technology Ventures 2-0-2
MOT 6128 Venture Financing 2-0-2
MOT 6129 International Business and Finance 2-0-2
MOT 6133 Ethical Decision Making 1-0-1

NEW COURSE - MBA Elective

MGT 6352 International Practicum I 1-6-3

Note: Approved as corrected.

11. A motion was made to approve a request from the College of Computing, College of Engineering, and College of Sciences for a new Ph.D. program and a new Master's program. The motion was seconded and approved.

NEW PROGRAMS*

Doctor of Philosophy in Computational Science and Engineering

Master of Science in Computational Science and Engineering

The following statement addresses how these programs will be administered:

Administration, admissions, and governance of the program shall be shared among the participating units. Specifically, a faculty program committee that includes the overall program director and a representative from each of the participating units will have responsibility for these tasks. The CSE program director shall be appointed by the Deans of the participating colleges. The representative from each participating unit shall be

appointed by the chair of that unit. Any changes to degree requirements must be approved unanimously by all members of the program committee.

The program includes the creation of a new course designation called Computational Science and Engineering (CSE). The content of courses carrying the CSE designation shall be managed by the CSE coordinating committee (described in passage 1) constituted from the participating units. If appropriate, members of the coordinating committee may designate an alternate participant (i.e., the unit graduate coordinator) to represent their unit for CSE curricular matters. Any changes to the content and/or set of courses carrying the CSE designation must be approved by this committee. Changes in CSE courses that are cross-listed with other units must also be approved by that unit's faculty before they take effect.

NEW COURSES

CSE 6001 Introduction to Computational Science and Engineering 1-0-1
CSE 6140 Computational Science and Engineering Algorithms 3-0-3
CSE 6220 High Performance Computing 3-0-3
CSE/Math 6643 Numerical Linear Algebra 3-0-3
CSE 6730 Modeling and Simulation: Fundamentals and Implementation 3-0-3
CSE/ISyE 6740 Computational Data Analysis 3-0-3
CSE/MATH 6644 Iterative Methods for Systems of Equations 3-0-3
CSE 6221 Multicore Computing: Concurrency and Parallelism on the Desktop 3-0-3
CSE/CS 6230 High Performance Parallel Computing: Tools and Applications 3-0-3
CSE/CS 6236 Parallel and Distributed Simulation 3-0-3
CSE 6240 Web Search and Text Mining 3-0-3
CSE 6241 Pattern Matching 3-0-3
CSE 6301 Algorithms for Bioinformatics and Computational Biology 3-0-3
CSE/INTA 6742 Modeling, Simulation, and Military Gaming 3-0-3
CSE 7000 Master's Thesis
CSE 7999 Preparation for Doctoral Qualifying Exams
CSE 8001 -02, -03, -04, -05 CSE Seminar
CSE 8801 -02, -03, -04, -05 Special Topics
CSE 8901 -02, -03 Special Problems
CSE 8997 Teaching Assistantship
CSE 8998 Research Assistantship
CSE 8999 Doctoral Thesis Preparation
CSE 9000 Doctoral Thesis
CSE/MATH 6710 Numerical Methods in Computational Science and Engineering I
3-0-3
CSE/MATH 6711 Numerical Methods in Computational Science and Engineering II
3-0-3
ISYE 6645 Monte Carlo Methods 3-0-3

COURSE CHANGES:

CS 6230: CSE 6230 High Performance Parallel Computing: Tools and Applications

CS 6236: CSE 6201 Parallel and Distributed Simulation

12. A motion was made to approve two clarifications on language related to graduate students. The motion was seconded and approved.
 - o A clarification in the wording of the Institute Transfer Credit policy for graduate students found at <http://www.catalog.gatech.edu/students/grad/geninfo/transfercredit.php>

To replace "an accredited institution in the United States or Canada" with "an institution accredited by a Canadian or U.S. regional accrediting board" throughout:

1. A student in a master's degree program requiring fewer than thirty-three semester credit hours may receive up to six hours of transfer credit for graduate-level courses taken at an institution accredited by a Canadian or U.S. regional accrediting board, or at a foreign school or university that has a signed partner agreement with Georgia Tech Lorraine, and not used for credit toward another degree. A student in a master's degree program requiring thirty-three semester credit hours or more may receive up to nine hours of transfer credit for graduate-level courses taken at an institution accredited by a Canadian or U.S. regional accrediting board, or at a foreign school or university that has a signed partner agreement with Georgia Tech Lorraine, and not used for credit toward another degree. The student must supply a current transcript for this evaluation.
 4. A student may not receive transfer credit from universities outside the United States and Canada except if the courses were taken at a foreign school or university that [insert underlined text] is accredited by a Canadian or U.S. regional accrediting board or has a signed partner agreement with Georgia Tech Lorraine.
- o The following changed wording in the catalog [changed text in italics] is suggested to make it very clear that there is no minimum number of hours of

dissertation required. This section is found at:
<http://www.catalog.gatech.edu/students/grad/doctoral/enrollment.php>

Enrollment Requirements

The matriculation requirements are similar to those outlined for the master's degree with the addition of the residency requirement: doctoral students must spend at least two full-time semesters in residence at the Georgia Institute of Technology and ordinarily must complete research for the dissertation while in residence. Under special circumstances, candidates who have met the residency requirement may receive permission to pursue their research in absentia, provided the chair of the appropriate school approves and a faculty member directs the project. *Although doctoral students working full-time on thesis research should normally be registered for a full course load of 9000 level dissertation hours each semester, this requirement is at the discretion of the advisor and the department: no minimum number of 9000 level dissertation hours is required for the doctoral degree. Doctoral students must be registered in the semester of graduation.*

(Replaces "In either case, doctoral students working full-time on thesis research should be registered for a full course load of 9000 level dissertation hours each semester.") While no fixed course requirements apply for the doctoral degree, the student's thesis advisory committee may recommend graduate coursework in both a major and a minor field of study. Doctoral students must be registered in the semester of graduation.

13. The discussion on a suggested revision to address doctoral transfer credit issue was tabled until the next meeting.

Adjourned,

Reta Pikowsky
Registrar