Georgia Institute of Technology
Graduate Curriculum Committee
Minutes
November 4, 2010

Present: Clarke (CoM), Singhal (CoM), Corso (PSYCH), Babensee (BME), Potts (GRAD STUDIES), Chordia (MUSIC), Storici (BIOL), Silva (ECON), Mazalek (LCC), Mark (CoC), Goldsman (ISyE), Rose (ME), Taylor (for Bonnie Ferri – ECE), Pikowsky (REG)

Visitors: Laros (REG), Howson (REG), Simon (REG), White (CoC), Scott (CoM), Paraska (PROVOST), Lohmann (PROVOST), Cook (ISyE), Basole (TI), Kirkland (TI), Rouse (TI), Jacobs (CoE), Barke (PUBP)

N**ote:** 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 presentation was made by Dr. Jack Lohmann and Ms. Susan Paraska from the Provost's Office about the services they provide as related to the work of the curriculum committee.
2. A preliminary review of an upcoming proposal for a new degree, Executive Master of Science in Enterprise Transformation included the following information.

The program's fit within Georgia Tech's strategic plan.

Georgia Tech's recently published draft strategic plan envisions the Institute as among the most highly respected technology- focused learning institutions in the world, sustaining and enhancing excellence in scholarship and research, and ensuring that innovation, entrepreneurship, and public service are fundamental characteristics of our graduates. To realize this vision, GT must be seen as thought leaders in leading-edge educational offerings that provide the new knowledge and skills needed to succeed in the increasing global economy where the "flat world" has created a hyper-competitive, fast changing competitive landscape. The Executive Master of Science in Enterprise Transformation will prepare graduates to play leadership roles in this competition.

The discipline or institutional standing as it relates to the proposed program.

GT launched its enterprise transformation initiative in 2003, initially in the top-ranked School of Industrial and Systems Engineering, but by 2004 in the Tennenbaum Institute (TI), a multi-disciplinary center focused on research and graduate education to understand and enable fundamental change of complex organizational systems. By

now, TI has secured almost $20M of gifts, endowments, and sponsored research funding focused on three national challenge issues – global manufacturing, healthcare delivery, and energy management. TI has supported more than a score of MS and PhD graduates across many of Georgia Tech's colleges and schools. In the process, GT has gained a reputation as <u>the</u> thought leader in enterprise transformation, as evidenced by adoption of elements of the GT vision by Illinois, MIT, Stephens, UC San Diego, and others. Further evidence is that four of the top five hits in a Google search on "enterprise transformation" relate to TI and GT.

Enterprise transformation is driven by experienced and/or anticipated value deficiencies that result in significantly redesigned and/or new work processes as determined by management's decision making abilities, limitations, and inclinations, all in the context of the social networks of management in particular and the enterprise in general. To understand and enable transformation, one needs to know how to define value and identify value deficiencies, design and analyze work processes, understand and support human decision making, and analyze and facilitate the social networks associated with the enterprise. The Executive Master of Science in Enterprise Transformation will prepare graduates with the requisite knowledge and skills.

The Committee was appreciative of the thoroughness of the proposal and suggested that the proposal be submitted for the January 2011 meeting.

3. A motion as made to approve a request from the School of Public Policy for a new course. The motion was seconded and approved.

NEW COURSE

PUBP 6440: Science, Technology, and Regulation 3-0-3

4. A motion as made to approve a request from the School of Industrial and Systems Engineering for new courses. The motion was seconded and approved.

NEW COURSES

ISyE 6320: Public Impact Applications of Operations Research and Management Science 1-6-3
ISyE 7688: Computational Mathematical Programming 3-0-3
   Note: Abbreviation for the transcript changed from "COMP MATH PROG" to "COMP MATH PROGRAMMING"

5. A motion was made to approve a request from the College of Computing for new courses. The motion was seconded and approved.

NEW COURSES

CS 6035: Introduction to Information Security 3-0-3
   Note: NCP form updated to reflect CS 4235 as equivalent course.
CS 6150: Computing-for-Good 3-0-3

CS 6365: Introduction to Enterprise Computing 3-0-3
     Note: NCP form updated to reflect CS 4365 as equivalent course.
CS 6422: Database System Implementation 3-0-3
     Note: NCP form updated to reflect CS 4420 as an equivalent course.
CS 6675: Advanced Internet Computing Systems and Applications 3-0-3
     Note: NCP form updated to reflect CS 4675 as equivalent course.
CS 7290: Advanced Topics in Microarchitecture and Organization
    of High-Performance Processors 3-0-3
CS 7292: Reliability and Security in Computer Architecture 3-0-3
CS 7525: Algorithmic Game Theory and Economics 3-0-3
CS 7535: Markov Chain Monte Carlo Algorithms 3-0-3
CS 7540: Spectral Algorithms and Representations 3-0-3
CS 7560: Theoretical Foundations of Cryptography 3-0-3

Student Petitions

1. A motion was made to approve a request from the College of Management for a blanket petition allowing students to graduate in Fall 2010 and Spring 2011 with an MBA degree based on 39 hours as part of the dual degree program that includes the MBA with another Georgia Tech Master's or PhD degree. The motion was seconded and approved.

   Note: After a lengthy discussion of this issue, the College of Management was advised to prepare a draft proposal to address the dual degree program itself. After input on the draft proposal is provided in the coming weeks, a formal proposal to address this internal dual degree program will be submitted to the Graduate Committee for action.

2. A motion was made to approve Petitions Subcommittee actions on petitions in the following areas. The motion was seconded and approved.

   All petitions approved except where noted.

   6 Change to Full Graduate standing
   1 Use six 9000 level hours as 7000 level hours to meet Master's degree requirement
   1 count courses taken while on special status toward degree
   1 Register late for course
   1 Use PHY4261 and 4263 for MS degree
   1 Teach out and graduate with 49 hours
   1 Waive two-term enrollment rule
   1 Graduate without GPA (PhD student completing only thesis hours at Tech)
   1 Use 15 undergraduate hours towards graduate degree
   3 Selective withdrawals
   2 Term withdrawals

Adjourned,

Reta Pikowsky
Registrar