

Georgia Institute of Technology
Graduate Curriculum Committee
Minutes
March 8, 2012

Present: Clarke (CoM), Pikowsky (Registrar), Storici (BIO), Ferri (ECE), Silva (ECON), Neitzel (ME), Flowers (ARCH), Mazalek (LCC), Jayaraman (MSE), Mark (CoC)

Visitors: Laros (Registrar), Howson (Registrar), Paraska (VPL), Wheaton (AP), White (CoC), Feigh (AE), Krige (HTS)

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 by the College of Computing for a degree modification. The motion was seconded and approved.

In accordance with the degree modification for the Master of Science in Computer Science as approved by the IGCC on January 20, 2011, the College of Computing hereby informs you of **modifications to the list of approved courses for three concentrations**. Changes are indicated in *bold italic*.

Degree Modification:

Master of Science in Computer Science

Databases and Software Engineering

Core Courses (6 hours)

CS 6505 Computability, Algorithms, and Complexity

And pick 1 of:

CS6210 Advanced Operating Systems

CS6241 Compiler Design

CS6290 High Performance Computer Architecture

CS8803-GOS Special Topics: Graduate Introduction to Operating Systems

Electives (9 hours)

Pick 3 of:

CS 6300 Software Engineering Processes

CS 6310 Software Architecture and Design

Added: CS 6340 Software Analysis and Testing

Added: CS 6365 Introduction to Enterprise Computing
CS 6422 Database System Implementation
CS 6675 Advanced Internet Computing Systems and Applications

Machine Learning

Core Courses (6 hours)

Algorithms: Pick 1 of:

CS 6505 Computability, Algorithms, and Complexity
CS 6520 Computational Complexity Theory
CS 6550 Design and Analysis of Algorithms
Added: CS 7510 Graph Algorithms
CS 7520 Approximation Algorithms
CS 7530 Randomized Algorithms
CSE 6140 Computational Science and Engineering Algorithms

And pick 1 of:

CS 7641 Machine Learning
CSE 6740 Computational Data Analysis

Electives (6 hours)

Pick 2 of:

CS 7616 Pattern Recognition
CS 7641 Machine Learning
Moved from Core: CS 7646 Machine Learning for Trading
CS 8803 Special Topics: Machine Learning Theory
CSE 6240 Web Search and Text Mining
Moved from Core: CSE 6242 Data and Visual Analytics
CSE 6740 Computational Data Analysis

[**Note:** Students must take CS 7641 or CSE 6740 to satisfy the core and can then take the other if they choose to apply toward the specialization electives]

Social Computing

Core Courses (6 hours)

Pick 1 of:

CS 6465 Computational Journalism
CS 6470 Design of Online Communities

And pick 1 of:

CS 6675 Advanced Internet Computing Systems and Applications
CS 7270 Internet Systems and Services
Added: CS 8803-SOC Special Topics: Social Computing

Electives (9 hours)

Pick 3 more classes including additional classes from the above and:

CS 6250 Computer Networks
CS 6238 Secure Computer Systems
CS 6456 Principles of User Interface Software
CS 6505 Computability and Algorithms
CS 6750 Human-Computer Interaction

CS 7210 Distributed Systems
CS 7450 Information Visualization
Added: CS 7460 Collaborative Computing
Added: CS 7467 Computer-Supported Collaborative Learning
CS 8893 Special Topics in Cognitive Science: Cognition and Culture

2. A motion was made to approve a request by the School of History, Technology, and Society for a new course and a course deactivation. The motion was seconded and approved.

At the last GCC meeting, HTS's graduate curriculum committee requested to rename HTS 6104 "Topics in Global History" to "Science and Technology Beyond Borders". Since a course title cannot be changed, HTS has submitted a request to create a new course and inactivate HTS 6104. They requested at the last GCC meeting that if the new course was approved that it be added to their lists of electives to replace the current HTS 6104. HTS 6124 will be coded as equivalent to HTS 6104 and can be used as a substitute for degree requirements.

New Course:

HTS 6124: Science and Technology Beyond Borders 3-0-3

Deactivate Course:

HTS 6104 Topics in Global History

3. A motion was made to approve a request by the School of Literature, Communication, and Culture for a new course and a degree modification. The motion was seconded and approved.

New Course:

LCC 6399: Discovery and Invention in Digital Media 3-0-3

Degree Modification:

Master of Science in Digital Media

We are requesting to revise the courses in the program by: removing two courses from the core (LCC 6311 and LCC 6312, they will remain as electives), adding one new course to the core (LCC 6399), and adding one additional project studio requirement. This will reduce the core from 4 to 3 courses and increase the project studio requirement from 1 to 2.

Key differences between the current program and the proposed new program:

The current program includes 4 core courses and 1 project studio vs. 3 core courses and 2 project studios in the proposed program.

Current program:

- 4 core courses: LCC 6310, LCC 6311, LCC 6312, LCC 6313 = 12 credit hours
- 1 required project studio: LCC 6650 = 3 credit hours

- 5 elective courses = 15 credit hours
- MS project or thesis = 6 credit hours
- Total: 36 credit hours

Proposed program:

- 3 core courses: LCC 6310, LCC 6313, LCC 6399 = 9 credit hours
- 2 required project studios: LCC 6650 = 6 credit hours
- 5 elective courses = 15 credit hours
- MS project or thesis = 6 credit hours
- Total: 36 credit hours

The currently approved program includes 4 core courses, 1 required project studio course, a 6-credit MS project or thesis, and 5 elective courses, totaling 36 credit hours. The four core courses in the current program are: LCC 6310 “The Computer as an Expressive Medium”, LCC 6311 “Visual Culture and Design”, LCC 6312 “Design, Technology, and Representation”, and LCC 6313 “Principles of Interactive Design”. Students must have a cumulative GPA of at least 3.0 to graduate, and no grade below “B” will be counted toward the degree.

Proposed program modifications:

The currently approved program is modified here to show changes. Highlights indicate additions/edits to existing text and strikeouts indicate text removed from the proposed revised version of the program.

REQUIREMENTS

To graduate with the Master of Science in Digital Media, students must take a minimum of 36 credit hours while meeting the following requirements:

~~5 required courses, totaling 15 hours:~~

3 required core courses and 2 required project studio courses, totaling 15 hours:

Fall semester of first year

LCC 6310 The Computer as an Expressive Medium (3 hours)

~~LCC 6311 Visual Culture and Design (3 hours)~~

LCC 6313 Principles of Interactive Design (3 hours)

Spring Semester of first year

~~LCC 6313 Principles of Interactive Design (3 hours)~~

~~LCC 6312 Design, Technology and Representation (3 hours)~~

LCC 6399 Discovery and Invention in Digital Media (3 hours)

Fall ~~or~~ and Spring, preferably first year

LCC 6650 Project Studio (3 hours; repeatable ~~may be taken multiple times~~)

5 additional courses, totaling 15 hours:

Students may choose from elective courses in DM or related disciplines, such as Architecture, Industrial Design, Cognitive Science, Computing, Management or Policy Studies. If a student chooses to take more than three elective courses outside DM, they must get approval from the DM Director of Graduate Studies. Available courses may be found on the "Course List" page.

6 hours of master's project or master's thesis:

All students will take 6 credits of either project (LCC 6800) or thesis (LCC 7000) work.

Summer Internship:

8-10 week full-time non-credit internship between the first and second year.

Course Load Requirements

Although the Institute sets the minimum course load for part-time students at 3 hours per term, the Digital Media Program does not enroll part-time students. Students with GRAs, fellowships, tuition waivers or student visas, and students assigned to the Institute by the armed forces for the purpose of pursuing a degree, are required to be enrolled for a minimum of 12 credit hours of letter grade or Pass/Fail credit per term.

Graduate Research Assistants (GRAs) typically enroll in LCC 8998 for 3 hours of audit credit as a means to gain course credit for the GRA. One 3-hour course may be taken on an audit basis with permission of the Director of Graduate Studies, exclusive of any GRA course audit hours. Audit credit does not count toward the degree.

4. A motion was made to approve a request by the School of Applied Physiology. The motion was seconded and approved for APPH 6234.

New Course:

APPH 6234: Movement Disorders	3-0-3	Approved
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Tabled New Course:

APPH 6410: Rehabilitation Engineering	2-3-3	Tabled
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Note: Course representative could not be at this meeting so this proposal will be put on the agenda for the next meeting.

5. A motion was made by the School of Aerospace Engineering for a new course. The motion was seconded and approved.

New Course:

AE 6721: Evaluation of Human Integrated Systems	3-0-3
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ISyE, and possibly other units, may be interested in submitting a new course request to cross-list with this course.

6. A motion was made to approve the Committee reports on Academic Program Reviews conducted in the 2009-2010 and 2010-2011 academic years. The motion was seconded and approved.

SCHOOL OF APPLIED PHYSIOLOGY -

Master of Science in Prosthetics and Orthotics
Doctor of Philosophy with a major in Applied Physiology

SCHOOL OF ECONOMICS -

Doctor of Philosophy with a major in Economics
Master of Science with a major in Economics

COLLEGE OF MANAGEMENT -

Master of Business Administration
Master of Business Administration in Management of Technology
Master of Business Administration – Global Business
Master of Science with a major in Management
Doctoral of Philosophy with a major in Management

SCHOOL OF LITERATURE, COMMUNICATION AND CULTURE -

Master of Science in Digital Media
Master of Science in Human-Computer Interaction
Doctoral of Philosophy with a major in Digital Media

Administrative Items

1. Updates to items from the February 9, 2012 GCC minutes:

CP 8500 "Advanced Quantitative Research Methods for Planning, Policy and Design" was proposed as a new course, but this course number has already been used. CP 8505 was used in place of CP 8500. CP 8999 and CP 9000 were submitted as new courses; however, they were previously used under the quarter system. Both were reactivated effective 201205. [May 2012]

The courses below have been deactivated effective 201205. [May 2012]

COA 8510
COA 8520
COA 8540

Student Petitions

1. A motion was made to approve the recommendations of the Petitions Subcommittee in the following areas. The motion was seconded and approved.

The following Petitions were reviewed by the Graduate Petition Subcommittee. (All approved except where noted.)

- 1 -Term withdrawal FA09
- 1 -Withdraw without “W” on transcript
- 1 -Change grade mode from letter grade to pass-fail
- 2 -Selective withdrawal (**2 Denied**)

The following petitions were reviewed administratively by the Registrar’s office. (All approved except where noted.)

- 7 -Full graduate standing
- 1 –Cancel registration
- 1 –Return for the Summer 2012 term after withdrawing from the Spring 2012 term
- 1 –Be allowed to register late
- 1 –Have Registration reinstated after Bursar drop

2. A motion was made to approve a petition to grant full graduate standing for a student without a Bachelor’s degree. The motion was seconded and approved.

3. A motion was made to approve a petition to grant full graduate standing for a student who completed degree requirements, but who was never awarded the Bachelor’s degree (the student did earn a Master’s degree). The motion was seconded and approved.

4. A motion was made to deny a request for readmission after a first drop. The motion was seconded and approved.

Adjourned,

Reta Pikowsky
Registrar