

**Georgia Institute of Technology**  
**Graduate Curriculum Committee**  
Minutes  
**June 10, 2010**

**Present:** Babensee (BME), Pikowsky (Registrar), Butera (ECE), Storici (BIO), Potts (Grad Studies), Corso (PSYC), Ferri (ECE), Mark (CoC), Rosen (ME)

**Visitors:** Laros (Registrar), Simon (Registrar), Paraska (Provost), Johnston (ARCH), Dagenhart (ARCH), Daniell (AP), Wheaton (AP), Parker (ISYE) Vande Vate (ISYE)

**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 School of Industrial and Systems Engineering for new courses, deactivating courses, and degree modifications. The motion was seconded and approved.

**New Courses:**

IL 6480: Supply Chain Lab I 0-3-1  
IL 6481: Supply Chain Lab II 0-3-1  
IL 6483: Supply Chain Lab IV 0-3-1  
IL 6484: Supply Chain Lab V 0-3-1

**Deactivate Courses:**

IL 6462  
IL 6463  
IL 6470  
IL 6471  
IL 6473  
IL 6474

**Degree Modification:**

Master of Science in International Logistics

Deactivate two IL courses for which material is incorporated into other IL courses and reduce credit hours from two to one for four IL lab courses. Overall impact is reduction in program from 36 credit hours to 30.

Note:

ISYE 6470, 6471, 6473, 6474 (2 credit hours each) are being replaced with ISYE 6480, 6481, 6483, 6484 (one credit hour each).

**Degree Modification:**

Master of Science in Statistics

Change in selection of four core courses:

Former requirements: MATH 4261, MATH 4262, ISYE 6413, and ISYE 6414.

New requirements: MATH 4261, MATH 4262, ISYE 6414, and a choice of ISYE 7400 or 7401.

Also, separately a change to selection of five (5) technical electives from specific lists to a single menu to provide flexibility for students as well as to facilitate scheduling of courses that support the degree. Total program hours remain the same.

**Degree Modification:**

Master of Science in Quantitative and Computational Finance

Change in selection of three (3) technical electives from specific lists to a single menu to provide flexibility for students as well as to facilitate scheduling of courses that support the degree. Total program hours remain the same.

2. A motion was made to approve a request from the College of Architecture for a new degree. The motion was seconded and approved.

**New Degree:**

Master of Science in Urban Design

The Master of Science in Urban Design (MSUD) will be offered as a post-professional degree and limited to students who have been awarded professional degrees in Architecture, Landscape Architecture, City Planning, or Civil and Environmental Engineering. The MSUD is proposed to be a 39-hour program to be completed in three semesters.

The MSUD will be a three-semester day program, requiring a total of 39 credit hours, and with instruction following the proven studio-based design education that forms the core of professional programs in Architecture and Landscape Architecture. The design studio will be the center of the curriculum and the place for synthetic problem solving, collaborative learning and real world project experience. The core curriculum, including all studios, will be taught by six of the College's urban design faculty who are highly qualified based on their education, academic experience, research, and professional experience. Other College faculty will supplement the core by teaching electives supportive of urban design research and practice.

Students and faculty will be in a face-to-face environment; there is no distance learning element included in the program.

The course of study for the Master of Science in Urban Design (MSUD) includes a set of required core courses, totaling 30 credit hours, and professional electives, totaling nine (9) credit hours. The total credit hour requirement for the MSUD degree is 39 credit hours.

### **Core Courses:**

The 30 credit hours of required core courses are organized into two groups: Core Lecture Courses, and Core Laboratory and Studio Courses. All of these courses are currently taught in the College of Architecture. These include:

Four Core Lecture Courses, totaling 12 credit hours:

- COA 6151: History of Urban Form (3-0-3)
- ARCH 6151: Theories of Urban Design (3-0-3)
- CP 6016: Growth Management Law (3-0-3)
- CP 6611: Principles of Real Estate Finance and Development (3-0-3)

Three Laboratory and Studio Courses, totaling 18 credit hours:

- COA 6011: Urban Design Laboratory (1-15-6 credits)
- COA 7011: Urban Design Studio (1-15-6 credits)

And one of the following:

- COA 7012: Urban Design Studio II (1-15-6)
- COA 8881: Special Problems - Urban Design (0-18-6)
- ARCH 7045: Urban Design Workshop (0-18-6)

### **Elective Courses:**

The nine (9) credits of elective courses are organized into six subject areas, reflecting important areas of urban design practice. Students will be advised to take these electives, either in concentrations or in distributed subjects, based on their prior professional degrees, professional experience and career interests. The individual elective courses are listed in 1c. This list of electives will be revised annually to reflect course availability, new courses, and identification of courses in other disciplines that would reinforce the students' urban design education.

Most of these electives are housed within the disciplines in the College – Architecture, City and Regional Planning, and Building Construction. Some are also available in Georgia Tech's School of Civil and Environmental Engineering. Others are available for cross-registration in the Georgia State University Real Estate Department in the Robinson School of Business or the Heritage Preservation Program in the College of Arts and Sciences.

These elective areas are as follows:

#### *Urban Design History, Theory and Practice*

These electives provide depth in several aspects of urban design history, theory and practice. This group of electives is especially appropriate for students with a strong technical background in both their prior professional degree and professional experience and who desires a broader background in the history, theory and practices of urban design.

#### *Sustainable Development*

These electives provide an introduction, as well as policy and technical depth, to issues of sustainable urbanism from a variety of perspectives. It is expected that the number of these electives will expand in the future with new offerings in Architecture, City and Regional Planning and Building Construction, as well as in other Colleges in the Institute.

#### *Transportation Planning*

These electives are courses in the existing Transportation Dual Degree Program between City and Regional Planning and Civil and Environmental Engineering. This is an important knowledge area in urban design. Students may also enroll, with permission, in other transportation planning and design courses in the Georgia Tech School of Civil and Environmental Engineering.

#### *Real Estate Development*

These electives combine courses in City and Regional Planning and Building Construction in the COA. The forthcoming real estate courses in the College of Management will be added to this list when they become available. Students may also cross enroll, with permission, in the Georgia State University Robinson College of Business Department of Real Estate for any RE 8000 or above, other than RE 8030 or RE 8050, which are duplicates of City and Regional Planning courses. In addition, students may select to complete the Real Estate Certificate Program at Georgia State University via cross enrollment with those courses applying to elective course requirements for the MSUD.

#### *Digital Media*

Digital media is a rapidly growing need in urban design practice, especially the bridging among GIS, CAD, 3-D Modeling and Animation. The strengths in the COA GIS Center and the Imagine Lab provide substantial opportunities in this area, and these opportunities are expected to continue to grow.

#### *Heritage Preservation*

Heritage Preservation is one area of urban design practice that has not had significant academic attention. These electives are based on opportunities for students to cross enroll, with permission, at GSU for courses in the Heritage Preservation Program in the History Department in the College of Arts and Sciences. In addition, student may select to complete the Historic Preservation Certificate Program at Georgia State University via cross enrollment with those courses applying to elective course requirements for the MSUD.

**A sample program of study for the MSUD Program includes 11 courses over a 12-month period. All students are expected to begin their program in the fall semester.**

<i>Fall Semester:</i>	
COA 6011: Urban Design Laboratory	6
COA 6151: History of Urban Form	3
ARCH 6151: Theories of Urban Design	3
CP 6611: Principles of Real Estate Finance	3
Total	15 credits

<i>Spring Semester:</i>	
COA 7011: Urban Design Studio I	6
CP 6016: Growth Management Law	3
Professional Electives	6
Total	15 credits

<i>Summer Semester:</i>	
COA 7012: Urban Design Studio II	6
Professional Elective	3
Total	9 credits

*Total Credit Hours Required* 39

The MSUD Program will be housed in the School of Architecture in the College of Architecture at the Georgia Institute of Technology, Atlanta, Georgia.

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

**New Courses:**

APPH 6236: Neuromuscular Physiology	3-0-3
APPH 6237: Methods in Human Neuroimaging	3-0-3
APPH 6238: Ion Channel Structure, Function & Regulation	3-0-3

Student Petitions

1. A motion was made to approve a petition for withdrawal from the Fall 2009 term. The motion was seconded and approved.
2. A motion was made to approve the recommendations from the Petitions Subcommittee for petitions in the following areas. The motion was seconded and approved.

**All petitions approved except where noted.**

- 3 Change Grade Mode
- 1 Use 14 hours of Master classes while taken as Undergraduate towards Master degree
- 2 Selective Withdrawals
- 2 Term withdrawals
- 2 Change Course to Audit (1 Denied)
- 1 Permission to take Undergraduate course

- 1 Waive Graduate GPA
- 1 Withdraw without having "W's" on transcript

Administrative Action:

- 1 Count courses taken while on Special status
- 7 Request Full Graduate Standing
- 1 Readmit 1st drop

Adjourned,

Reta Pikowsky  
Registrar