

**Georgia Institute of Technology**  
**Graduate Curriculum Committee**  
**Minutes**  
**February 10, 2011**

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

**Visitors:** Laros (Registrar), Howson (Registrar), Simon (Registrar), Paraska (VPFAD), White (CoC), Llewellyn (CETL), Stiftel (CRP), Parker (ISYE), Soleil (CETL)

**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 new courses, a course modification, and a program modification. The motion was seconded and approved. The vote was unanimous.

**New Courses:**

CS 6440: Introduction to Health Informatics	3-0-3
CS 6457: Video Game Design and Programming	3-0-3
CS 7616: Pattern Recognition	3-0-3
CS 7633: Human-Robot Interaction	3-0-3
CS 7637: Knowledge-Based AI	3-0-3
CS 7649: Robot Intelligence: Planning	3-0-3
CS 7634: AI Storytelling in Virtual Worlds	3-0-3

**Course Modification:**

Grade Mode: CS/CSE 7999

Change the mode from audit only to pass/fail only

Credit hours: CS/CSE 8997 and 8998

This course is a variable hour credit course. The range is currently 1 to 9 and the school has requested it to be 1 to 6. This change will be made effective Summer 2011 term.

**Program Modification: From 12 month to 9 month**

The Graduate Program of Computational Science & Engineering would like to propose that the master degree in Computational Science & Engineering (MSCSE) and the PhD

degree in Computational Science & Engineering (PhDCSE) be changed from a 12 month program to a 9 month program to properly reflect the actual operation of the program.

We have not offered any regular CSE graduate courses in the summer semester. We have no plans to increase the graduate offerings in the summer in the foreseeable future.

Our intention for offering so few courses in the summer is that:

- Our MS students typically participate in internships in the summer and thus are not interested in summer enrollment.
- Our PhD students concentrate on research in the summer or participate in internships in the summer and do not typically take courses.
- Our budget constraints don't allow us to offer more courses even if there were greater demand.

Since we do not offer any regular graduate courses in the summer, the program is actually a 9 month program.

Since the MSCSE degree and the PhDCSE degree are currently a 12 month program the Institute requires that international students produce appropriate documentation that demonstrates their ability to be supported for three semesters, per calendar year. That is an unnecessary financial burden on those students. If the program were a 9 month program the support requirements for international students would be reduced to two semesters.

## **Master of Science in Computational Science and Engineering**

### ***Sample Programs***

The following is a sample program that a student might follow to complete the MS program under the course-only option:

<b>Semester 1 (Fall)</b>	<b>Semester 2 (Spring)</b>	<b>Semester 3 (Fall)</b>
CSE-core (3)	CSE-core-3 (3)	Specialization (3)
CSE-core (3)	CSE-core-4 (3)	Specialization (3)
Specialization (3)	Specialization (3)	Specialization (3)
Specialization (3)		

The following is a sample program that a student might follow to complete the MS program under the MS thesis option. This table represents a three semester program;

however, we anticipate that many students will require four semesters to compile adequate background knowledge to successfully complete thesis research.

<b>Semester 1 (Fall)</b>	<b>Semester 2 (Spring)</b>	<b>Semester 3 (Fall)</b>
CSE-core (3)	CSE-core-3 (3)	Specialization (3)
CSE-core (3)	CSE-core-4 (3)	Specialization (3)
Specialization (3)	CSE 7000 (MS Thesis) (3)	CSE 7000 (MS Thesis) (3)
Specialization (3)		

### **Doctor of Philosophy with a major in Computational Science and Engineering**

#### ***Sample Program***

The following is a sample program that a student might follow in their first two years enrolled in the program:

<b>Semester 1 (Fall)</b>	<b>Semester 2 (Spring)</b>	<b>Semester 3 (Fall)</b>	<b>Semester 4 (Spring)</b>
CSE 6001 (1)	CSE-core-3 (3)	Specialization (3)	Specialization (3)
CSE-core (3)	CSE-core-4 (3)	Specialization (3)	CSE 7999 - Qualifying Exam (6)
CSE-core (3)	Specialization (3)	Specialization (3)	Special Problems (3)
Specialization (3)	Special Problems (3)	Special Problems (3)	
Special Problems (2)			

Beyond the second year students will focus on dissertation research. A typical schedule would be for a student to complete the dissertation proposal in the third year and complete the dissertation in the fifth year.

2. A motion was made to table a request by the Center for the Enhancement of Teaching and Learning to allow CETL classes to count for Degree Credit. The motion was tabled. The vote was unanimous.

Following the discussion of this request, and the vote to table it, the Registrar was asked to coordinate a meeting with the chairs of the two curriculum committees and volunteers from the Graduate Committee to discuss the philosophical and practical implications of non-academic units teaching courses for academic credit. The outcome of that discussion will be reported to the Committee at a later time and this request will be put back on the agenda.

- A motion was made to approve a request by the School of Electrical and Computer Engineering for three new External Dual Degrees. The motion was seconded and approved. The vote was unanimous.

**New External Dual Degree:**

Master of Science in Electrical and Computer Engineering as a Dual Degree Program with the Grenoble Institute of Technology (Grenoble INP Ense<sup>3</sup>)

The GT MS-ECE degree is a 30-hour program. For the partner institution's students, a one-hour (\*) Graduate Seminar is included:

REQUIREMENT	HOURS	COMMENTS
Graduate-level (6000) ECE Hours	9	Three classes in one or two technical interest areas of the student's choosing. All hours for letter grade credit.
Additional ECE Graduate-level (6000) Hours	9	At least six (6) hours must be outside the technical area(s) above. These six hours may not be cross-listed with the technical interest area(s) above. All hours for letter grade credit.
Minor (outside ECE) Hours	6	Minor classes must be taken for a letter grade, in a single discipline, and not cross-listed with ECE
Electives (may be outside ECE)	6	
(*) Graduate Seminar	1	For partner students only
Total hours required:	30/31	

Students enrolled in this dual-degree program must fulfill the requirements that have been approved by the governing faculty bodies of Georgia Tech and as stated in the GT General Catalog as well as the School of Electrical and Computer Engineering specific information in the General Catalog in order to receive academic credit for coursework completed at GT Atlanta and GT Lorraine.

The Grenoble INP Ense<sup>3</sup> standards apply with regard to the award of academic credit toward the award of the Diplôme d'Ingénieur or master's degree. The faculty curriculum coordinators of the ECE Graduate Office review and verify coursework and Grenoble INP Ense<sup>3</sup> student transcripts when determining transfer of credit toward the GT MS-ECE degree.

The curriculum study schedule for Grenoble INP Ense<sup>3</sup> students requires 20 months to complete as follows:

- Fall Semester** Year N: Grenoble INP Ense<sup>3</sup> students admitted to GT and attend courses at Grenoble INP Ense<sup>3</sup> to satisfy the upper-level (master equivalent) requirements of the Diplôme d'Ingénieur. *(Six of these hours completed will be considered for transfer of credit toward GT MS-ECE degree.)*

- **Spring Semester** Year N+1: Grenoble INP Ense<sup>3</sup> students study at the GT Lorraine campus as full-time students taking courses for the GT MS-ECE program. (*Complete 12 GT MS-ECE hours.*)
- **Summer – Fall** Year N+1: Grenoble INP Ense<sup>3</sup> students complete the industrial internship required for award of the Diplôme d'Ingénieur. (*None of these hours are considered for transfer of credit toward GT MS-ECE degree.*)
- **Spring Semester** Year N+2: Grenoble INP Ense<sup>3</sup> study at the Georgia Tech Atlanta campus to complete their academic curriculum and graduate with the GT MS-ECE degree. (*Complete 12 hrs toward GT MS-ECE degree.*)

Table 1: Study Schedule for Grenoble INP Ense<sup>3</sup> Students

<b>Fall Year N</b>	<b>Spring Year N+1</b>	<b>Summer – Fall Year N+1</b>	<b>Spring Year N+2</b>
Grenoble INP Ense <sup>3</sup>	GT Lorraine	Industrial internship	GT Atlanta
6 SCH for transfer	12 SCH	0 SCH	12 SCH

The curriculum study schedule for Georgia Tech students requires 24 months to complete as follows:

- **Fall Semester** Year N: Georgia Tech students study at the GT Lorraine campus as full-time students taking courses for the GT MS-ECE program. (*Complete 12 GT MS-ECE hours.*)
- **Spring Semester** Year N+1: Georgia Tech students study at the GT Lorraine campus as full-time students taking courses for the GT MS-ECE program. (*Complete 12 GT MS-ECE hours.*)
- **Summer** Year N+1: Georgia Tech students will be invited to do an industrial internship (*None of these hours are considered for transfer of credit toward GT MS-ECE degree.*)
- **Fall Semester** Year N+1: Georgia Tech students study at the Grenoble INP Ense<sup>3</sup> campus to complete their academic curriculum and graduate with the GT MS-ECE degree. (*6 hrs transferred toward the GT MS-ECE degree.*)
- **Spring and Summer Semester** Year N+2: Georgia Tech students complete the industrial or research internship required for award of the Master degree. (*None of these hours are considered for transfer of credit toward GT MS-ECE degree.*)

Table 2: Study Schedule for Georgia Tech Students

<b>Fall Year N</b>	<b>Spring Year N+1</b>	<b>Fall Year N+1</b>	<b>Spring Year N+2</b>
GT Lorraine or GT Atlanta	GT Lorraine or GT Atlanta	Grenoble INP Ense <sup>3</sup>	Grenoble INP Ense <sup>3</sup>
12 SCH	12 SCH	Full-time 6 SCH for transfer	Full-time

### **New External Dual Degree:**

Master of Science in Electrical and Computer Engineering as a Dual Degree Program with the Grenoble Institute of Technology (Grenoble Inp Phelma)

The GT MS-ECE degree is a 30-hour program. For the partner students, a one-hour (\*) Graduate Seminar:

REQUIREMENT	HOURS	COMMENTS
Graduate-level (6000) ECE Hours	9	Three classes in one or two technical interest areas of the student's choosing. All hours for letter grade credit.
Additional ECE Graduate-level (6000) Hours	9	At least six (6) hours must be outside the technical area(s) above. These six hours may not be cross-listed with the technical interest area(s) above. All hours for letter grade credit.
Minor (outside ECE) Hours	6	Minor classes must be taken for a letter grade, in a single discipline, and not cross-listed with ECE
Electives (may be outside ECE)	6	
(*) Graduate Seminar	1	For partner students only
Total hours required:	30/31	

Students enrolled in this dual-degree program must fulfill the requirements that have been approved by the governing faculty bodies of Georgia Tech and as stated in the GT General Catalog as well as the School of Electrical and Computer Engineering (ECE) specific information in the General Catalog in order to receive academic credit for coursework completed at GT Atlanta and GT Lorraine.

The Grenoble INP Phelma standards apply with regard to the award of academic credit toward the award of the Diplôme d'Ingénieur or Master degree. The faculty curriculum coordinators of the ECE Graduate Office review and verify coursework and Grenoble INP Phelma student transcripts when determining transfer of credit toward the GT MS-ECE degree.

The curriculum study schedule for Grenoble INP Phelma students requires 20 months to complete as follows:

- **Fall Semester** Year N: Grenoble INP Phelma students admitted to GT and attend courses at Grenoble INP Phelma to satisfy the upper-level (master equivalent) requirements of the Diplôme d'Ingénieur. *(Six of these hours completed will be considered for transfer of credit toward GT MS-ECE degree.)*
- **Spring Semester** Year N+1: Grenoble INP Phelma students study at the GT Lorraine campus as full-time students taking courses for the GT MS-ECE program. *(Complete 12 GT MS-ECE hours.)*

- **Summer – Fall Year N+1:** Grenoble INP Phelma students complete the industrial internship required for award of the Diplôme d'Ingénieur. (*None of these hours are considered for transfer of credit toward GT MS-ECE degree.*)
- **Spring Semester Year N+2:** Grenoble INP Phelma study at the Georgia Tech Atlanta campus to complete their academic curriculum and graduate with the GT MS-ECE degree. (*Complete 12 hrs toward GT MS-ECE degree.*)

Table 1: Study Schedule for Grenoble INP Phelma Students

<b>Fall Year N</b>	<b>Spring Year N+1</b>	<b>Summer – Fall Year N+1</b>	<b>Spring Year N+2</b>
Grenoble INP Phelma	GT Lorraine	Industrial internship	GT Atlanta
6 SCH for transfer	12 SCH	0 SCH	12 SCH

The curriculum study schedule for Georgia Tech students requires 24 months to complete as follows:

- **Fall Semester Year N:** Georgia Tech students study at the GT Lorraine campus as full-time students taking courses for the GT MS-ECE program. (*Complete 12 GT MS-ECE hours.*)
- **Spring Semester Year N+1:** Georgia Tech students study at the GT Lorraine campus as full-time students taking courses for the GT MS-ECE program. (*Complete 12 GT MS-ECE hours.*)
- **Summer Year N+1:** Georgia Tech students will be invited to do an industrial internship (*None of these hours are considered for transfer of credit toward GT MS-ECE degree.*)
- **Fall Semester Year N+1:** Georgia Tech students study at the Grenoble INP Phelma campus to complete their academic curriculum and graduate with the GT MS-ECE degree. (*6 hrs transferred toward the GT MS-ECE degree.*)
- **Spring & Summer Semester Year N+2:** Georgia Tech students complete the industrial or research internship required for award of the Master degree. (*None of these hours are considered for transfer of credit toward GT MS-ECE degree.*)

Table 2: Study Schedule for Georgia Tech Students

<b>Fall Year N</b>	<b>Spring Year N+1</b>	<b>Fall Year N+1</b>	<b>Spring Year N+2</b>
GT Lorraine	GT Lorraine	Grenoble INP Phelma	Grenoble INP Phelma
12 SCH	12 SCH	Full-time 6 SCH for transfer	Full-time

### **New External Dual Degree:**

Master of Science in Electrical and Computer Engineering as a Dual Degree Program with the École Supérieure D'ingénieurs en Electrotechnique et Electronique (Esiee)

The GT MS-ECE degree is a 30-hour program:

REQUIREMENT	HOURS	COMMENTS
Graduate-level (6000) ECE Hours	9	Three classes in one or two technical interest areas of the student's choosing. All hours for letter grade credit.
Additional ECE Graduate-level (6000) Hours	9	At least six (6) hours must be outside the technical area(s) above. These six hours may not be cross-listed with the technical interest area(s) above. All hours for letter grade credit.
Minor (outside ECE) Hours	6	Minor classes must be taken for a letter grade, in a single discipline, and not cross-listed with ECE
Electives (may be outside ECE)	6	
Total hours required:	30	

Students enrolled in this double-degree program must fulfill the requirements that have been approved by the governing faculty bodies of Georgia Tech and as stated in the GT General Catalog as well as the School of Electrical and Computer Engineering (ECE) information in order to receive academic credit for coursework completed at GT Atlanta and GT Lorraine.

The ESIEE standards apply with regard to the award of academic credit toward the award of the Diplôme d'Ingénieur. The faculty curriculum coordinators of the ECE Graduate Office review and verify coursework and ESIEE student transcripts when determining transfer of credit toward the GT MS-ECE degree.

The curriculum study schedule for ESIEE students requires 20 months to complete as follows:

- **Fall Semester** Year N: ESIEE students admitted to GT and attend courses at ESIEE to satisfy the upper-level (master equivalent) requirements of the Diplôme d'Ingénieur. *(Six of these hours completed will be considered for transfer of credit toward GT MS-ECE degree.)*
- **Spring Semester** Year N+1: ESIEE students study at the GT Lorraine campus as full-time students taking courses for the GT MS-ECE program. *(Complete 12 GT MS-ECE hours.)*
- **Summer – Fall** Year N+1: ESIEE students complete the industrial internship required for award of the Diplôme d'Ingénieur. *(None of these hours are considered for transfer of credit toward GT MS-ECE degree.)*
- **Spring Semester** Year N+2: ESIEE study at the Georgia Tech Atlanta campus to complete their academic curriculum and graduate with the GT MS-ECE degree. *(Complete 12 hrs toward GT MS-ECE degree.)*

Table 1: Study Schedule for ESIEE Students

Fall Year N	Spring Year N+1	Summer – Fall Year N+1	Spring Year N+2
ESIEE	GT Lorraine	Industrial internship	GT Atlanta



Fall Year N	Spring Year N+1	Summer – Fall Year N+1	Spring Year N+2
6 SCH for transfer	12 SCH	0 SCH	12 SCH

**Note:** The Committee raised a question about how many more of these requests are likely to come forward. The Provost's Office indicated that there are no others currently in the pipeline. A concern about the number of these programs is whether they can be managed and administered effectively in the future with existing resources. It was also requested that new partner schools to existing degree programs be indicated within the context of existing partners for a degree, i.e., present a list of all partner schools for a dual degree and the new ones being added.

- A motion was made to approve a request by the Schools of Computer Science, Industrial and Systems Engineering, and Mathematics for a Degree Modification. The motion was seconded and approved. The vote was unanimous.

### **Degree Modification:**

Doctor of Philosophy with a Major in Algorithms Combinatorics Optimization

### Academic Requirements for the ACO Program (Changes in red)

Regardless of the home department, each ACO student must complete the ACO core courses. At least 15 hours of course work beyond the program core must also be completed; some of these additional courses are specified by the student's home department. All required courses must be passed with a grade of B or better. Other requirements include the minor field of study, passing the comprehensive examination, defending a research proposal, and successful defense of the dissertation.

### **Core Courses**

The ACO core curriculum consists of the following one-semester courses:

#### *Computing*

- CS 6550 Design and Analysis of Algorithms
- CS 6505 Computability and Algorithms or CS 6520 Complexity (CoC students must select the latter)

#### *Industrial and Systems Engineering*

- ISyE 7661 Theory of Linear Inequalities
- ISyE 7686 Advanced Combinatorial Optimization

#### *Mathematics*

- Math 6014 Graph Theory
- Math 6121 Algebra I (Students in ISyE may substitute Math 6112 Advanced Linear Algebra)
- Math 6221 Advanced Classical Probability Theory
- Math 7018 Probabilistic Methods in Combinatorics

## Additional Course Requirements

Each student must complete at least 15 semester hours of course work at the 6000 or higher level in addition to the courses that constitute the program core. The following courses are required, depending on the student's home department:

*For students with home in the College of Computing*

- ~~CS 7520—Approximation Algorithms~~
- ~~CS 7530—Randomized Algorithms~~
- ~~CS 6520—Complexity~~
- Two theory courses at the level of 7000 or above

*For students with home in the School of Industrial and Systems Engineering*

- ISyE/Math 6761 -Stochastics I
- ~~Math 6021—Topology of Euclidean Spaces~~
- ~~CS 6520—Complexity~~
- ISyE 6663 -Nonlinear Optimization

*For students with home in the School of Mathematics*

- ~~Math 6021—Topology of Euclidean Spaces~~
- ~~Math 6321—Complex Analysis~~
- Math 6337 -Real Analysis I
- ~~CS 7520—Approximation Algorithms or CS 7530—Randomized Algorithms~~
- Two courses selected from:
- Math 6321 Complex Analysis
- Math 6112 Advanced Linear Algebra
- A 6000 level or above topology/geometry course

5. The Registrar presented a draft set of guidelines that might be used to evaluate proposals for dual degrees, primarily internal dual degrees. In their deliberations, Registrar's Office staff concluded that a simple sliding scale would not be sufficient to aid in evaluating proposals for internal dual degrees because it is the make-up of the two degrees and how the curricula interact that determine how much "sharing" of courses makes sense and maintains the integrity of both degrees.

The body of knowledge imparted by each of the degrees individually needs to also be present for each degree making up the dual degree. The Committee also reviewed and discussed related topics regarding Institute level requirements for Master's degrees and noted that the transfer credit policy has been the guide in the past, but does not adequately address the internal dual degrees and the sharing of credits. After a lengthy discussion, the Registrar was asked to articulate the working philosophy for considering extent of course sharing for dual degrees to provide guidelines to facilitate preparation of new dual degree proposals and discussion of future dual degree programs. The revised guidelines draft will be presented at the next meeting.

6. A motion was made to approve a request by the School of City and Regional Planning and the School of Public Policy for a Degree Modification. The motion was seconded and approved. The vote was unanimous.

**Dual Degree:**

Dual Master of City and Regional Planning / Master of Science in Public Policy

Dual Degree Program Requirements, Curriculum, and Cross-referencing Coursework

All students must complete a minimum combined requirement of **75 credit hours** for the dual degree program.

- The current total required hours for the MCRP degree program is: 55 hours.
  - Current MSPUBP degree/curriculum requirements:  
<http://www.spp.gatech.edu/ms/degereq>
- The current total required hours for the MSPUBP degree program is: 46 hours.
  - Current MCRP degree/curriculum requirements:  
[http://www.planning.gatech.edu/masters\\_program.html](http://www.planning.gatech.edu/masters_program.html)

Table 1 is an overview of the dual MCRP-MSPUBP as compared to current requirements of the programs individually.

	MCRP— Current	MSPUBP— Current	Dual Program		
			CP Hrs	PP Hrs	Dual
Core Courses	24	25	17	19	<b>36</b>
Core Course Options			6/7		<b>6/7</b>
Specialization (CP)	12		12		<b>12</b>
Concentration (PP)					
Research Option Paper or Capstone Paper	4	3	4	4	<b>8</b>
<b>Subtotal</b>	<b>40</b>	<b>28</b>			<b>62-63</b>
Selected Electives			Bring hours up to TOTAL of 75		
<b>DUAL DEGREE CREDIT TOTAL</b>			<b>75</b>		

Students earning both the MCRP and MSPUBP degrees must meet requirements of each degree, including all core, specialization (MCRP), and studio requirements (MCRP), with five modifications:

- 1) up to 12 credit hours of Public Policy courses may be used as electives toward the MCRP degree;
- 2) up to 14 credit hours of City Planning courses may be used as electives toward the MSPUBP degree;
- 3) students must complete either CP6025: Advanced Planning Methods or PUBP 6114: Applied Policy Methods as a core course, but may not receive credit for both;

- 4) students must complete either CP6031: Economic Analysis in Planning, or PUBP 6116: Microeconomics in Policy Analysis, but may not receive credit for both; and
- 5) students must elect at least one specialization of which the two programs have overlapping/complementary faculty expertise with the approval of faculty advisor.

When the current curriculum of each program—MCRP and MSPUBP—is interleaved to define the dual degree program requirements, the dual MCRP-MSPUBP curriculum will be as follows:

### **I. Core Courses for the Master of Science in Public Policy (19 hrs):**

PUBP 6001: Introduction to Public Policy (1 hr)  
 PUBP 6010: Ethics, Epistemology, and Public Policy (3 hrs.)

PUBP 6012: Fundamentals of Policy Processes (3 hrs.)  
 PUBP 6112: Research Design in Policy Science (3hrs)  
 PUBP 6118: Public Finance and Policy (3 hrs)  
 PUBP 6201: Public Policy Analysis Capstone (3 hrs)

Students must also take one of the following three classes:

PUBP 6014: Organization Theory (3 hrs)  
 PUBP 6017: Public Management (3hrs)  
 PUBP 6018: Policy Implementation and Administration (3 hrs)

### **II. Core Courses for City Planning Program (17 hrs):**

- CP 6002: Introduction to Fields of Study in Planning (2 hrs)
- CP 6012: History and Theory of Planning (4 hrs.)
- CP 6016: Growth Management Law and Implementation (3 hrs.)
- CP 6024: Quantitative and Computer Methods in Planning (4 hrs.)
- CP 6052: Applied Planning Studio (4 hrs.)

### **III. Core Course Options for Dual Degree Students (6-7 hrs):**

PUBP 6114: Applied Policy Methods and Data Analysis (3 hrs) or CP6025: Advanced Planning Methods (4 hrs).

*and*

PUBP 6116: Microeconomics in Policy Analysis (3hrs) or CP 6031: Economic Analysis in Planning (3 hrs)

### **IV. Public Policy Concentration (12 credit hrs)**

One concentration from among MSPP program offerings, each of which involves at least 12 credit hrs. [Note: Either the Public Policy concentration or the City and Regional Planning specialization must be in the area of Economic Development; Urban and Regional Policy; or Environmental Policy, Planning and Management.]

### **V. City and Regional Planning Specialization (12 credit hours)**

One specialization from among MCRP program offerings, each of which involves at least 12 credit hrs. [Note: Either the Public Policy concentration or the City and Regional Planning

specialization must be in the area of Economic Development; Urban and Regional Policy; or Environmental Policy, Planning and Management.]

## **VI. Capstone Research Paper in each degree program (minimum of 8 credit hrs)**

Students shall complete a research paper in each degree program.

For the MCRP degree, the student will complete:

**CP 8990** Applied Research Paper (4 hours minimum).

For the MSPP degree, the student will complete:

**PUPB 6801** Research Paper (4 hours minimum).

It will be the student's responsibility to apprise the faculty advisors of these papers of the scope of work of both papers so that the advisors may make appropriate determinations as to the adequacy of the scope of work of the project they advise.

## **VII. Electives**

Additional elective courses approved as appropriate to the degree studies sufficient to achieve a minimum of seventy-five (75) credit hours for award of the dual degrees.

It is strongly recommended that students apply to the dual degree program before beginning studies in either program, or if not, then no later than the end of their second semester of study in the first program.

Students must complete both degree programs simultaneously so that the degrees may be awarded simultaneously. That is, students enrolled in the dual degree program will not receive either the MCRP or the MSPUBP degree until they have met the requirements of both degree programs. Should a dual degree student choose to withdraw from one of the two degree programs, the student would have the option of completing the other degree following the normal requirements of that single degree program.

In this dual degree case, the committee expressed an understanding that the body of knowledge of each degree was maintained in the dual degree with students taking the cores of each degree, with consideration of overlapping content in core course options with the sharing of courses only occurring at the level of electives.

## **Petitions**

1. A motion was made to approve Petitions Subcommittee and administrative action on petitions in the following areas. The motion was seconded and approved. The vote was unanimous.

All petitions were approved except as noted:

2 Grade mode changes

1 Waiver of the two-term residency requirement

(This petition was approved because the School misunderstood the policy – the student did intend to enroll full-time, but not be physically located in Atlanta.)

1 Change registration from audit to letter grade for Spring 2011 co-op

The following petitions were handled administratively. All petitions were approved, accept as noted.

1 Readmit after first drop for the Summer 2011 term

3 Update status to degree seeking

Adjourned,

Reta Pikowsky  
Registrar