



FACULTY SENATE

November 12, 2014

MEMORANDUM

TO: Dr. Mark A. Hussey, Interim President

FROM: Jim Woosley (Speaker)

SUBJECT: Graduate Council (FS 32.64)

The Faculty Senate submits for your approval the item from the Graduate Council at its regular meeting on November 10, 2014. Attached is a copy of the material sent to our Senators.

Special Consideration

College of Architecture

Landscape Architecture and Urban Planning

Certificate in Transportation Planning

Proposal to add focus area in Graduate Certificate in Transportation Planning

cc: Karan Watson
Christine Stanley
Michael Benedik
Sandra Williams
Jorge Vanegas

FACULTY SENATE AGENDA ITEM REVIEW

This item has been reviewed by the Office of the Provost (OP). Below are recommended action(s): RE: FS. 32.64

<i>Presidential Action:</i> <input checked="" type="checkbox"/> Recommend Approval <input type="checkbox"/> Review Only	<i>OP Recommended Action</i> <input type="checkbox"/> Hold for Further Review <input type="checkbox"/> Hold Released <input type="checkbox"/> System Review/Submission <input type="checkbox"/> BOR Approval <input type="checkbox"/> THECB Approval/Notification <input type="checkbox"/> SACSCOC Approval/Notification
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Approved: _____ Reviewed: _____

Mark A. Hussey

Mark A. Hussey

12/18/14

Date

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SEP 23 2014

CC

GRADUATE STUDIES

Memorandum

Date: February 11, 2014

To: Jorge Vanegas, Dean
College of Architecture

Through: Leslie Feigenbaum, Assistant Dean for Academic Affairs
College of Architecture *[Signature]*

From: Forster Ndubisi, Department Head *Forster Ndubisi*
Department of Landscape Architecture and Urban Planning

Subject: Graduate Certificate in Transportation Planning – Add Focus Area

Approved by GC:
[Signature]
Mark S. Zava
Chair, GC
10/20/14

This memo is to respectfully request an additional focus area to an already approved Graduate Certificate in Transportation Planning. The Certificate currently has three focus areas which are Multimodal Systems Planning, Transportation and Urban Design and Transportation Planning and Public Policy. The Department would like to request adding a Transit Management focus area to the certificate. This focus is designed to meet critical professional needs within the transportation community, and is tailored towards securing the student's placement in specific transportation-related agencies and organizations.

If you should have any questions or concerns, please feel free to contact me at 979-845-1019.



DATE: May 25, 2012

TO: Matt Sandidge - Texas Transportation Institute

THROUGH: Dr. Samuel A. Kirkpatrick *SAK*
Executive Associate Dean, Bush School of Government and Public Service

FROM: Dr. Jeryl Mumpower *Jeryl Mumpower*
MPSA Program Director, Bush School of Government and Public Service

RE: Inclusion of Bush School Coursework in Certificate in Transportation Planning Curriculum

The Bush School of Government and Public Service fully supports the new focus area "Transit Management" for the Graduate Certificate in Transportation Planning (CTP), based in the College of Architecture. The Bush School currently has coursework included in other focus areas of the CTP curriculum and endorses inclusion of five elective courses in the new transit management focus area curriculum. The courses include the following:

- PSAA 611: Public Policy Formation
- PSAA 622: Public Finance
- PSAA 634: Public Management
- PSAA 636: Grant and Contract Management
- PSAA 648: Performance Management in the Public and Nonprofit Sectors

We welcome students from other departments pursuing the CTP in its current format to enroll in the Bush School courses listed above. We foresee no issues with students pursuing the transit management focus area also taking these courses.

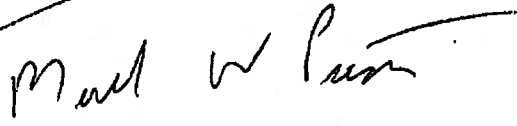
DATE: May 21, 2012
TO: Matt Sandidge – Texas Transportation Institute
FROM: Mays Business School – Department of Management
RE: Inclusion of Coursework in Certificate in Transportation Planning Curriculum

The Department of Management of Mays Business School received information regarding the new focus area "Transit Management" for the Graduate Certificate in Transportation Planning (CTP), based in the College of Architecture. The Department of Management does not object to the inclusion of five courses in the focus area curriculum. The five courses include the following:

- MGMT 630: Behavior and Organizations
- MGMT 639: Negotiations in Competitive Environments
- MGMT 655: Survey of Management
- MGMT 658: Managing Projects
- MGMT 675: Leadership in Organizations

We welcome students from other departments pursuing the CTP to enroll in the courses listed above from our department. Further, we see no issues with students pursuing the transit management focus area to take these courses.

Agreed


Assistant Dept Head
Management

2014

THE GRADUATE CERTIFICATE IN TRANSPORTATION PLANNING



Texas A&M University
College of Architecture
February 2014

THE GRADUATE CERTIFICATE IN TRANSPORTATION PLANNING

**Program Description
and Degree Requirements**

REVISED DRAFT: February 2014

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The Certificate Program

The Certificate is to be awarded after completion of a prescribed program of study, and must be signed by the head of the student's academic department and the dean of the college. The certificate contains the seal of the university and appropriate text. It will normally be presented at college ceremonies prior to the official university graduation exercises.

PART II: Criteria and Course Requirements

The College of Architecture will award the Certificate to students meeting the criteria listed below:

1. All students should declare intent to seek the Certificate at the time of filing a Degree Plan, but in any event must submit an application as soon as possible after filing a Degree Plan. Application forms are available in the Graduate Programs Office in the College of Architecture, and are also available at the Hazard Reduction & Recovery Center and the Certificate Program Coordinator.
2. The student must complete a minimum of fifteen (15) credit hours of course work in transportation planning. This 15-credit sequence of courses is comprised of a foundational course in transportation planning (Foundation: 3 credits), a course providing a foundation in the student's area of focus (Focused Foundation: 3 Credits), two electives in the student's chosen area of focus (6 credits), and an applied studio course that provide a comprehensive, multidisciplinary application of the skills and knowledge gained during the completion of the certification program (Capstone Course: 3 Credits). The courses must be applicable toward a graduate degree in the College of Architecture, but may not necessarily be included on the student's degree plan. At least three (3) credit hours of course work with transportation content must be from outside the student's major department.
3. The student must complete a professional study, thesis, or dissertation with a transportation focus approved by the CTP Council if this is required by the student's major program.
4. On completion of all the requirements for the graduate degree, the student will receive "the Certificate" signed by the Dean and the appropriate Department Head.

The student's Graduate Advisory Committee remains the primary body for recommending the degree plan content. Courses required or intended for the Certificate

may be used in the degree plan with the concurrence of the Graduate Advisory Committee. Students also may add courses beyond their normal degree requirements in order to fulfill the Certificate requirements. Students are encouraged to consult with their Graduate Advisory Committee *and* the Coordinator of the Certificate as they develop their degree plans.

PART III-A: Approved Courses for the Certificate

The CTP Council will pre-approve a list of courses that meet the requirements for transportation planning content. The list, together with associated syllabi and names of instructors, will be on file in the Transportation Planning Certificate Program Office, which is located in the LAUP Office. The list will be available also in the Hazard Reduction & Recovery Center Office.

Students who identify a course not on the list of pre-approved courses, or who wish to transfer courses from another institution, must submit a written statement that clearly describes how a course lacking prior approval is related to the student's course of study in transportation planning. This written statement, supported by a copy of the course syllabus, will be reviewed by the CTP Council. Where a course has a generic topic (for example a design studio in architecture, or a capstone studio course in land development or planning), the written statement of the transportation planning content and the student's specific role in working with that content must be co-signed by the course instructor. Courses that are not acceptable for use toward a graduate degree at Texas A&M University will not be approved under any circumstances. The CTP Council may seek input from faculty concerning course content and/or the specific contribution of a student in a course with team activity.

Where the CTP Council makes a negative finding as to applicability of a course, or a final project, the finding will be made in writing with copies to the student, student file, and chair of the student's Graduate Advisory Committee. Appeals against findings of the CTP Council will be made to the academic dean of the College of Architecture.

PART III-B: Curriculum

The curriculum for the Certificate is represented graphically in Figure 1.

1. Foundations of Transportation Practice (3 Credit Hours)

Students pursuing the Certificate will begin their study by taking PLAN 612: Transportation in City Planning, which provides a comprehensive overview of the role of transportation in society. Required Course:

- PLAN 612: Transportation in City Planning

2. Focus Area (9 Credit Hours)

The second step in the completion of the Certificate is the completion of courses in one of four specific areas of professional focus. Students will be required to complete nine (9) credits for the following focus areas: *Multimodal Systems Planning, Transportation and Urban Design, Transportation and Public Policy, and Transit Management*. Each of the four focus areas is designed to meet critical needs within the transportation profession, and is tailored towards securing the student's placement in appropriate transportation-related agencies and organizations.

a. Multimodal Systems Planning

The focus area in *Multimodal Systems Planning* is intended for students seeking to address regional-level transportation issues. This focus area builds upon the foundational curriculum by providing an in-depth examination of multimodal solutions for addressing regional mobility, as well as providing students with instruction on the tools and methods used for designing and aligning regional-level transportation system investments. Students focusing on *Multimodal Systems Planning* will have the educational background needed for successful employment in metropolitan planning organizations (MPOs), Regional Councils of Governments (COGs), as well as the diverse array of private consulting firms who provide support for the activities of these agencies. Courses for students focusing on Multimodal Systems Planning are:

Required: Focused Foundation in Multimodal Systems Planning (3 Credits)

- PLAN 670: Urban Public Transportation Planning*
- PLAN 673: Design for Sustainable Transportation

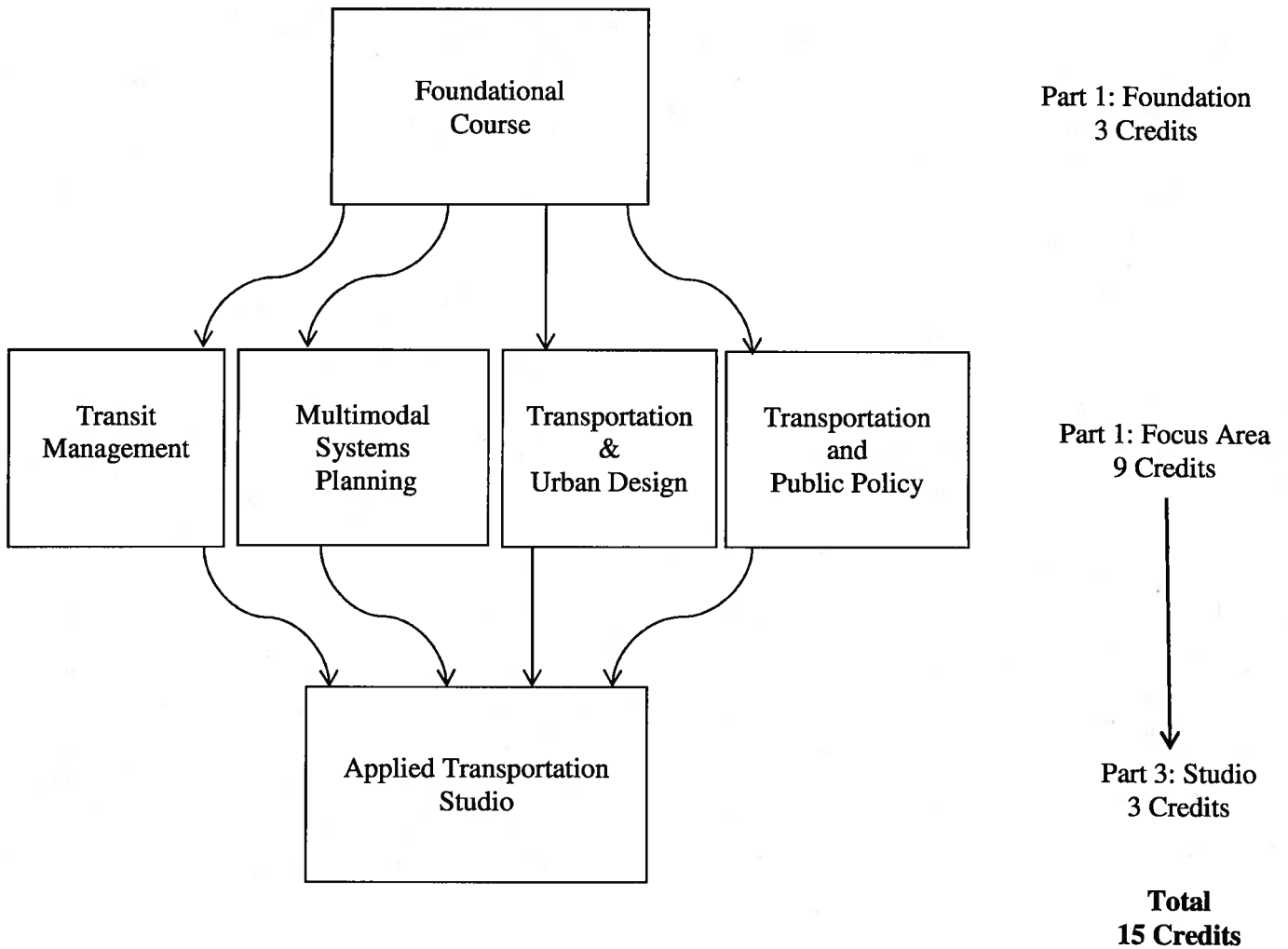
Electives: Multimodal Systems Planning (6 Credits)

- CVEN 618: Traffic Engineering: Operations
- CVEN 672: Engineering and Planning Urban Transportation Systems
- PLAN 626: Advanced GIS in Landscape Architecture and Urban Planning**
- PLAN 650: Disaster Response Planning
- PLAN 673: Design for Sustainable Transportation

- PLAN 674: Transportation Systems Analysis
- PLAN 676: Transportation Investment Decisions

* Students are advised to take PLAN 670 if available, but PLAN 673 will also satisfy this requirement.

** Prerequisite: PLAN 625: Geographic Information Systems in Landscape Architecture and Urban Planning, or an approved substitute.



Certificate in Transportation – Curriculum Structure

b. Transportation and Urban Design

The focus area in *Transportation and Urban Design* seeks to address the growing demand for transportation professionals who can balance conventional mobility concerns with the needs of the built and natural environments. Despite the call from industry leaders such as the Federal Highway Administration (FHWA), the Institute of Transportation Engineers (ITE), and the Transportation Research Board (TRB) for a more “context-sensitive” approach to transportation planning and design, few, if any, University programs provide specific instruction in this area. The focus area in *Transportation and Urban Design* seeks to build upon TAMU’s reputation as a leader in transportation education by providing specialized instruction aimed at addressing this critical professional need. Students focusing in *Transportation and Urban Design* will typically find employment in the growing number of private firms providing specialized transportation design services to both local governments and state departments of transportation (DOTs), as well in staff positions in public-sector agencies. Courses for students focusing in *Transportation and Urban Design* are:

Required: Focused Foundation in Transportation and Urban Design (3 Credits)

- PLAN 673: Design for Sustainable Transportation

Electives: Transportation and Urban Design (6 Credits):

- CVEN 617: Traffic Engineering – Characteristics
- CVEN 618: Traffic Engineering: Operations
- CVEN 635: Street and Highway Design
- CVEN 672: Engineering and Urban Transportation Systems
- LAND 661: Visual Quality for Design and Planning
- PLAN 670: Urban Public Transportation Planning
- PLAN 672: Transportation and the Environment
- PLAN 674: Transportation Systems Analysis
- PLAN 676: Transportation Investment Decisions

c. Transportation and Public Policy

Total public expenditures in transportation infrastructure total more than \$170 billion per year,¹ with many public funding programs tied to specific program grants that direct how transportation system investments are made. The *Transportation and Public Policy* focus area is intended to develop policy

¹ Source: Bureau of Transportation Statistics (2005). *Transportation Statistics Annual Report*. Washington DC: Bureau of Transportation Statistics, November.

innovators who are able to tailor public policy and finance to address emerging transportation needs. Students focusing in this area will have the educational background needed to assume policy and managerial positions in public-sector entities responsible for transportation planning and investments, such as state and local departments of transportation (DOTs), as well as in the Federal agencies tasked with oversight over the nation's transportation system, such as the Federal Highway Administration (FHWA) and the Federal Transit Administration (FTA), among others. Proposed courses for this focus area include:

Required: Focused Foundation in Transportation and Public Policy (3 Credits)

- PLAN 676: Transportation Investment Decisions

Electives: Transportation and Public Policy (6 Credits)

- PSAA 611: Public Policy Formation
- PSAA 616: Public Organization in a Pluralistic Society
- PSAA 617: State and Local Government Policy
- PSAA 622: Public Finance
- PSAA 634: Public Management
- PLAN 650: Disaster Response Planning

d. Transit Management

The focus area in *Transit Management* seeks to address the growing demand for highly qualified and well-trained professionals in the public transit industry. In the state of Texas alone, there are over 70 urban and rural transit systems, in addition to more than 135 operators providing transit services to the elderly and individuals with disabilities. According to the American Public Transportation Association (APTA), more than half of the transit workforce will retire by 2020, highlighting the need to train the next generation of public transit professionals. While the need for new professionals in the public transit industry is great, very few university programs offer specific instruction in transit management and operations. The focus area in *Transit Management* seeks to address this gap by providing students with skills and knowledge in transit operations, management techniques, and critical analysis aimed at addressing this important professional need. Students focusing in *Transit Management* will have the necessary skills to pursue careers in the public transit industry, and will typically find employment with federal agencies such as the Federal Transit Administration (FTA), regional and metropolitan transit agencies such as Dallas Area Rapid Transit (DART) and

Houston METRO, small town and rural transit agencies, and specialized transit agencies providing demand response and paratransit services.

Students choosing the Transit Management focus area are strongly encouraged to pursue an internship involving work in transit management and planning. Efforts will be made to provide resources and information about internship opportunities and to help place students in transit management internships.

Required: Focused Foundation in Transit Management (3 Credits)

- PLAN 670: Urban Public Transportation Planning*
- PLAN 673: Design for Sustainable Transportation

Electives: Transit Management (9 Credits)**

Planning and Civil Engineering

- CVEN 618: Traffic Engineering: Operations
- CVEN 632: Engineering Economics
- CVEN 672: Engineering and Planning Urban Transportation Systems
- PLAN 674: Transportation Systems Analysis

Management, Policy and Finance

- MGMT 630: Behavior and Organizations
- MGMT 639: Negotiations in Competitive Environments
- MGMT 655: Survey of Management
- MGMT 658: Managing Projects
- MGMT 675: Leadership in Organizations
- PLAN 676: Transportation Investment Decisions
- PSAA 611: Public Policy Formation
- PSAA 622: Public Finance
- PSAA 634: Public Management
- PSAA 636: Grant and Contract Management
- PSAA 648: Performance Management in the Public and Nonprofit Sectors

* Students are advised to take PLAN 670 if available, but PLAN 673 will also satisfy this requirement.

** Students will be required to take one course under *Planning and Civil Engineering* and two courses under *Management, Policy and Finance*.

3. Capstone Course (3 Credit Hours)

The Certificate in Transportation will culminate in a second-year capstone course that synthesizes the knowledge obtained during the course of the certificate program. As envisioned, the Capstone Course will require students from each of the four focus areas to work collaboratively to develop comprehensive real-world solutions to transportation problems at the local and regional scales. As growth and demand in individual focus areas permits, additional capstone courses may be added that are tailored towards students in specific focus areas.

- PLAN 678: Applied Transportation Studio

PART III-C: Program Faculty

The following faculty members have special expertise appropriate to Transportation Planning and should be considered for inclusion on Guidance Committees:

- Ann Bowman, Bush School of Government and Public Service
- Elise Bright, Landscape Architecture and Urban Planning
- Mark Burris, Civil Engineering
- Bill Eisele, Texas A&M Transportation Institute, Landscape Architecture and Urban Planning
- David Ellis, Texas A&M Transportation Institute, Landscape Architecture and Urban Planning
- Gene Hawkins, Civil Engineering
- Kenneth Joh, Landscape Architecture and Urban Planning
- Chanam Lee, Landscape Architecture and Urban Planning
- Ming-Han Li, Landscape Architecture and Urban Planning
- Wei Li, Landscape Architecture and Urban Planning
- Michael Lindell, Landscape Architecture and Urban Planning
- Eric Lindquist, Bush School of Government and Public Service
- Tim Lomax, Texas A&M Transportation Institute, Landscape Architecture and Urban Planning
- Forster Ndubisi, Landscape Architecture and Urban Planning
- Dennis Perkinson, Texas A&M Transportation Institute, Landscape Architecture and Urban Planning
- Luca Quadrifoglio, Civil Engineering
- Katherine Turnbull, Texas A&M Transportation Institute, Landscape Architecture and Urban Planning
- Douglas Wunneburger, Landscape Architecture and Urban Planning
- Arnold Vedlitz, Bush School of Government and Public Service

Part III-D: Model Degree Plan for Master of Urban Planning Students*

Fall Semester I	PLAN 601: Introduction to Urban Planning	1
	PLAN 604: Planning Methods I	3
	PLAN 610: Structure and Function of Settlements	3
	PLAN 625: GIS for LAUP	3
	PLAN 661: Communications in Planning	<u>3</u>
		13
Spring Semester I	PLAN 613: Planning Methods II	3
	PLAN 664: Planning History and Theory	3
	<i>PLAN 673: Design for Sustainable Transportation</i>	3
	<i>PLAN 676: Transportation Investment Decisions</i>	<u>3</u>
		12
Fall Semester II	<i>PLAN 612: Transportation in City Planning</i>	3
	PLAN 662: Applied Planning I	3
	<i>PLAN 674: Transportation Systems Analysis</i>	3
	PLAN 684: Professional Internship	1
	Elective	<u>3</u>
		13
Spring Semester II	PLAN 663: Applied Planning II	3
	<i>PLAN 678: Applied Transportation Studio</i>	3
	PLAN 693: Professional Study	1
	Elective	<u>3</u>
		10
Minimum Hours Standard Degree		48

* CTP classes in *italics*

* Note: Specific course sequences may vary given the focus area selected by the individual student. The above sequence represents the anticipated schedule for a student pursuing a Master of Urban Planning Degree that is focusing on Multimodal Systems Planning.

Part III-E: Model Degree Plan for Master of Landscape Architecture Students*

Fall Semester I	LAND 620: Open Space Development I	5
	LAND 640: Research Methods in Landscape Arch.	3
	RLEM 602: Ecology and Land Uses	3
	<i>PLAN 612: Transportation in City Planning</i>	<u>3</u>
		14
Spring Semester I	LAND 621: Open Space Development II	5
	LAND 681: Seminar	1
	<i>PLAN 673: Design for Sustainable Transportation</i>	3
	<i>PLAN 676: Transportation Investment Decisions</i>	<u>3</u>
		12
Summer Semester I	LAND 684: Professional Internship	<u>4</u>
		4
Fall Semester II	LAND 646: Professional Practice	3
	LAND 693: Professional Study	3
	<i>PLAN 674: Transportation Systems Analysis</i>	3
	Elective	<u>3</u>
		12
Spring Semester II	LAND 646: Professional Practice	3
	LAND 693: Professional Study	4
	<i>PLAN 678: Applied Transportation Studio</i>	<u>3</u>
		10
Minimum Hours Standard Degree		48

* CTP classes in *italics*

* Note: Specific course sequences may vary given the focus area selected by the individual student. The above sequence represents the anticipated schedule for a student pursuing a Master of Landscape Architecture Degree that is focusing on Transportation and Urban Design.

Part III-F: Model Degree Plan for Master of Architecture Students*

Fall Semester I	ARCH 605: Design I	6
	ARCH 631: Structure Elements III	3
	ARCH 633: Environmental Systems 3	<u>3</u>
		12
Spring Semester I	ARCH 606: Design II	6
	ARCH 638/9: Architectural History	3
	<i>PLAN 673: Design for Sustainable Transportation</i>	<u>3</u>
		12
Summer Semester I	ARCH: Architecture Elective	<u>3</u>
		3
Fall Semester II	ARCH 607: Design III	6
	<i>PLAN 612: Transportation in City Planning</i>	3
	<i>PLAN 674: Transportation Systems Analysis</i>	3
	ARCH 685: Final Study Prep	<u>1</u>
		13
Spring Semester II	ARCH: Professional Practice	3
	LAND 693: Professional Study	4
	<i>PLAN 676: Transportation Investment Decisions</i>	3
	<i>PLAN 678: Applied Transportation Studio</i>	<u>3</u>
		13
Minimum Hours Standard Degree		53

* CTP classes in *italics*

* Note: Specific course sequences may vary given the focus area selected by the individual student. The above sequence represents the anticipated schedule for a student pursuing a Master of Architecture Degree that is focusing on Transportation and Urban Design.

Part III-G: Model Degree Plan for Master of Science in Civil Engineering Students*

Fall Semester I	CVEN 617: Traffic Engineering-Characteristics	3
	<i>CVEN 672: Engineering and Urban Transportation</i>	3
	<i>PLAN 612: Transportation in City Planning</i>	<u>3</u>
		9
Spring Semester I	CVEN 618: Traffic Engineering- Operations	3
	CVEN 681: Seminar in Transportation	1
	<i>PLAN 676: Transportation Investment Decisions</i>	3
	<i>PLAN 678: Applied Transportation Studio</i>	<u>3</u>
		10
Summer Semester I	Research Hours	6
Fall Semester II	<i>CVEN 635: Street and Highway Design</i>	3
	Elective	3
	Research Hours	<u>3</u>
		9
Minimum Hours Standard Degree		34

* CTP classes in *italics*

* Note: Specific course sequences may vary given the focus area selected by the individual student. The above sequence represents the anticipated schedule for a student pursuing a Master of Science in Civil Engineering degree that is focusing on Transportation and Public Policy.

Part III-H: Model Degree Plan for Master of Public Service and Administration*

Fall Semester I	BUSH 601: Leadership and Public Administration	3
	PSAA 621: Economic Analysis	3
	BUSH 631: Quantitative Methods in Public Mgmt I	3
	<i>PSAA 611: Public Policy Formation</i>	<u>3</u>
		12
Spring Semester I	BUSH 632: Quantitative Methods in Public Mgmt II	3
	<i>PSAA 622: Public Finance OR PSAA 634: Public Management</i>	3
	<i>PLAN 676: Transportation Investment Decisions</i>	3
	Elective	<u>3</u>
		12
Summer Semester I	Professional Internship	
Fall Semester II	PSAA 675: Capstone I	3
	PSAA 615: Policy Analysis OR PSAA 623: Budgeting in Public Service	3
	<i>PLAN 612: Transportation in City Planning</i>	3
	Elective	<u>3</u>
		12
Spring Semester II	PSAA 676: Capstone II	3
	<i>PLAN 678: Applied Transportation Studio</i>	3
	Elective	3
	Elective	<u>3</u>
		12
Minimum Hours Standard Degree		48

* CTP classes in *italics*

* Note: Specific course sequences may vary given the focus area selected by the individual student. The above sequence represents the anticipated schedule for a student pursuing a Master of Public Service and Administration degree that is focusing on Transportation and Public Policy.

Part IV: Summary of Steps Required Obtaining the Certificate

Students are strongly encouraged to meet with a member of the CTP Council (in particular, the Certificate Coordinator) prior to filing an application and completing a degree plan.

Step One: *Initial Application for the Certificate.* At the time a degree plan is filed, the student will complete an Initial Application for the Certificate and attach to it a copy of the Degree Plan signed by the student's Graduate Advisory Committee and the head of the student's department. The CTP Council will review the Initial Application for compliance with the requirements for content. Initial Applications for the Certificate submitted after filing a degree plan can usually be expected to require a revision of the degree plan and may delay timely progress toward degree completion.

Step Two: *Review of the Final Application.* Master's level students must provide the CTP Council with an abstract and any supporting justification as may be required to evaluate the topical relevance of transportation planning to their professional study, professional paper, or thesis, if such a product is required in their degree program. This information must be submitted after the manuscript has been approved by the student's Graduate Advisory Committee. Doctoral students must provide the CTP Council with an abstract and any supporting justification as may be required to evaluate the topical relevance to transportation planning to their dissertation. This information must be submitted after the defense of the dissertation proposal. The CTP Council will review the Final Application for compliance with the requirements for content and forward its recommendation to the Graduate Programs Office.

Step Three: *Issue of the Certificate.* At the time the student is approved for receipt of a relevant graduate degree, the Graduate Programs Office in the College of Architecture (COA) will review the approved certificate courses and advise the Dean of the College of Architecture of successful completion. The Dean of the COA will then authorize the granting of the Certificate.

Part V: Policy for Maintaining Student Records

Official Graduate Transportation Planning Certificate Program records consist of the *Application*, a copy of the approved *Degree Plan* (and any subsequent *Petitions* that may impact the previously approved program), an *Abstract* of the final project topic, and any official correspondence. These records will be kept in the official student folders in the COA Graduate Programs Office. For reference purposes the COA Graduate Programs Office will create and maintain a database showing all students who have received, or are currently enrolled in the Certificate Program.

Name

Degree Program

Date of Application

Date of Actions For Each Step Above

Title of Project, Paper, Thesis, Or Dissertation

Name Of Chair Of Graduate Advisory Committee

Date of Degree/Certificate Awarded

Permanent/Current Address/E-Mail

Employment Data

This database will be accessible by the Transportation Planning Program Office and the HRRC, which also maintains hardcopy files for developing data on the career histories, addresses, email address, etc. of certificate holders and current students. Student grades will not be available outside the COA Graduate Programs Office, and personal data will not be released, except in accordance with state law and university guidelines.

**APPLICATION FOR ADMISSION TO THE
GRADUATE CERTIFICATE IN TRANSPORTATION PLANNING PROGRAM**

Submit this form to the Certificate Coordinator

Student Information:

Name: _____ Student ID Number: _____

Address: _____

Phone(s): _____ Email: _____

Date of Application: _____

Degree Information:

Department: _____

Degree Program (please circle)

Doctoral Degree

Ph. D. (ARCH)

Ph. D. (URSC)

Ph. D. (Other)

Master's Degree

M.ARCH

MS(ARCH)

MLA

MSCE

MUP

MSLD

MPSA

MA/MS (Other)

Chair of Graduate Advisory Committee: _____

Expected completion date: _____

**Please attach a preliminary description or final abstract of dissertation, final study, thesis,
or professional report or paper:**

**STUDENT DEGREE PLAN FOR THE
GRADUATE CERTIFICATE IN TRANSPORTATION PLANNING**

List the courses you propose to meet the Transportation Planning Certificate requirements.

Department Abbreviation	Course Number	Course Title	Credit Hours

Signature of Student

Date

Approval Recommended:

Certificate Coordinator

Date

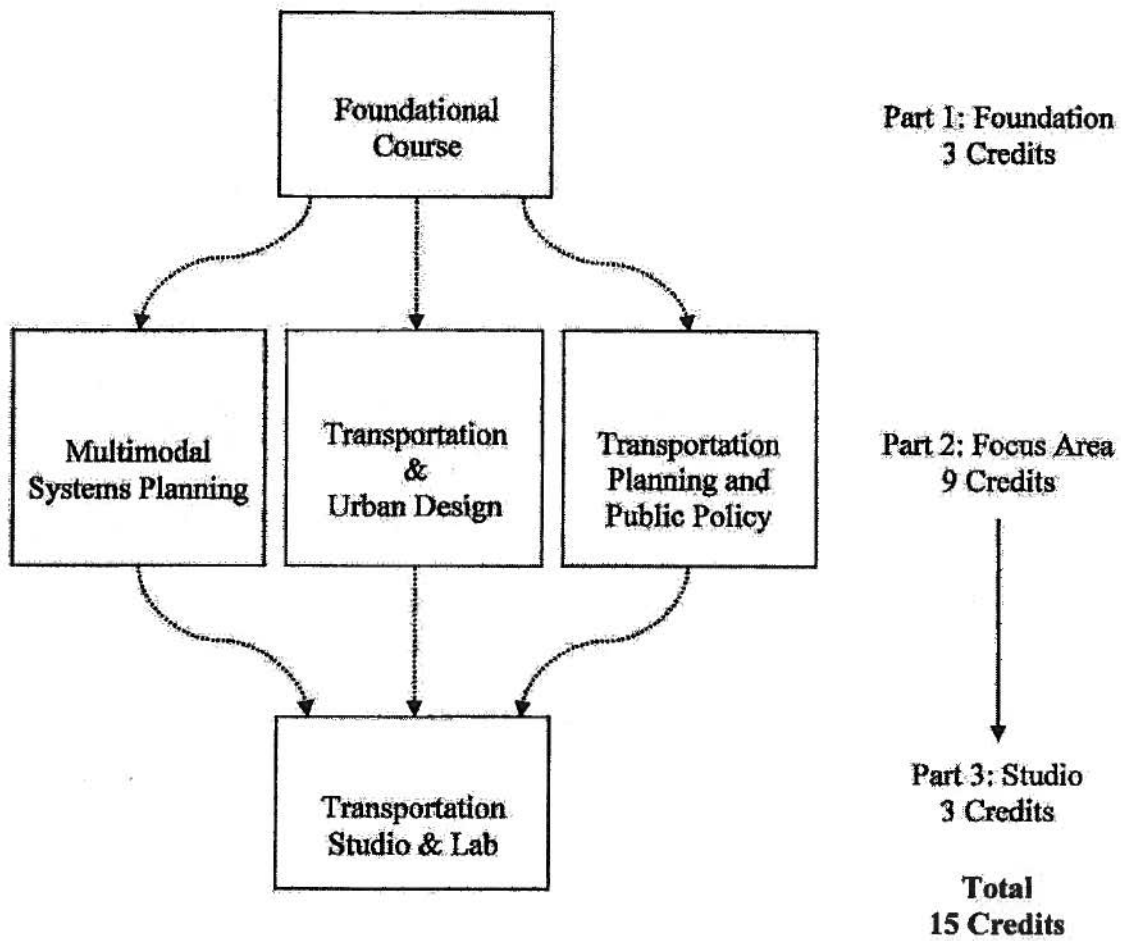
<u>Graduate Programs Office</u>	<u>CTP Program Office</u>	<u>Student</u>	<u>Chair, Student's Graduate Advisory Committee</u>

Attachment C

Certificate Structure and Credit Hour Requirement

The Transportation Certificate will involve a 15-credit sequence comprised of one required foundational course (3 credits), three focus area courses (9 credits), and a capstone course (3 credits) providing a comprehensive overview and application of the skills and techniques learned during the completion of the certificate program. A comprehensive examination may be substituted in lieu of the capstone course. The proposed program differs in three minor ways from the existing Certificate Program: First, the prospective student does not necessarily need to be enrolled in a graduate degree at the university to be enrolled in the Certificate since it is targeted to place-bound students. As such, students can enroll directly into the program similar to the way the Bush School enrolls students into the online certificates it offers. Second, the certificate does not need to be awarded concurrent with a graduate degree. Third, the courses will be delivered as appropriate in a condensed and flexible format to increase access as also done in the Bush School.

Figure 1 (next page), depicts the overall structure of the 15-credit certificate program, comprised of the following components:



Certificate in Transportation - Curriculum Structure