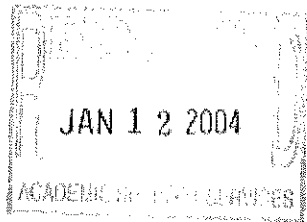


96-202



THE FACULTY SENATE

June 10, 2003

MEMORANDUM

TO: President Robert M. Gates
SUBJECT: Sustainable Urbanism Certificate Program (FS.21.08)

At its regular meeting on June 9, 2003, the Faculty Senate approved the following item from the Graduate Council and submits it for your approval. Attached is a copy of the material sent to our Senators.

College of Architecture to offer Sustainable Urbanism Certificate Program

Thank you for your time and consideration. Please inform me of your action on this matter.

Martha Loudder
Speaker, 2003-2004

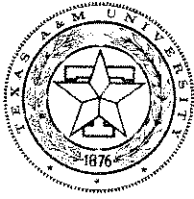
Attachment

cc: Dr. David Prior
Dr. Karan Watson
Dr. Rick Giardino
Dean J. Thomas Regan

Approved:

Robert M. Gates, President

7-18-03
Date



TEXAS A&M UNIVERSITY

College of Architecture
Office of the Dean

ORIGINAL

UCC/GC APR 10 2003
FS June 9 2003
Pres. App. July 18 2003
SIMS _____
Catalog _____

TO: J. Rick Giardino, Dean
Office of Graduate Studies

FROM: Mark Clayton
Executive Associate Dean

A handwritten signature in black ink, appearing to read "Mark Clayton".

DATE: 25 March 2003

SUBJECT: Agenda Item Request:
College of Architecture "Sustainable Urbanism" Certificate Program

The College of Architecture requests that "Sustainable Urbanism Certificate Program" be added to the GC/GOC Agenda for it's next meeting. The College of Architecture currently houses four (4) certificate programs. They are:

- Certificate in Environmental Hazard Management*
- Certificate in Facility Management*
- Certificate in Health Systems and Design*
- Certificate in Historic Preservation*

Appropriate certificate material is attached and the requested 25 copies are provided. Please contact Melinda Randle at 458-0478 if more information is needed in order to place this item on the agenda.

MJC/mdr

Attachments

THE GRADUATE CERTIFICATE IN SUSTAINABLE URBANISM

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PART I: Program Description

Purpose

Sustainable Urbanism is an interdisciplinary program based in the Center for Housing and Urban Development (CHUD) in the College of Architecture that has been designed to provide students with an understanding of the interrelationship between the sustainability, cities, and the environmental design professions. The Sustainable Urbanism Program consists of a series of courses that are open to students from any graduate degree program at Texas A&M University. The Sustainable Urbanism Certificate is awarded in recognition of those who have acquired a requisite degree of knowledge and skill in the field.

The Sustainable Urbanism Certificate Council

The Sustainable Urbanism Certificate Council is comprised of at least six (6) standing graduate faculty members who are expert in the field and are appointed by the Dean of the College of Architecture to advise on all matters relating to the program. They are appointed to represent all the academic departments participating in the certificate, and the Center for Housing and Urban Development (CHUD).

The Graduate Advisory Committee for each student, with the oversight of degree coordinators, department heads, and the Office of Graduate Studies, is responsible for the academic program of the student. However, the Sustainable Urbanism Certificate Council is charged with ensuring that students recommended for the certificate have met content standards.

The program can be accomplished within the minimum number of hours required for any of the graduate degrees offered within the College of Architecture, save the Master of Science degrees in Architecture and Land Development. The fit with programs in other colleges will need to be assessed on a case-by-case basis. Moreover, the student's Graduate Advisory Committee might require, or the student may choose to take, additional hours not on the degree plan in order to meet the requirements for the certificate.

The Sustainable Urbanism Certificate

The Sustainable Urbanism Certificate Program 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 Sustainable Urbanism Certificate to students meeting the criteria listed below:

1. The student declares his or her intent to seek the Sustainable Urbanism Certificate at the time of filing a Degree Plan. Application forms are available from the Graduate Programs Office in the College of Architecture, and are also available at CHUD and from the Certificate Program Director.
2. The student must complete a minimum of eighteen (18) credit hours of course work in Sustainable Urbanism, which includes a six (6) credit hour collaborative studio. The courses must be applicable toward a graduate degree in the College of Architecture. Students select one course from each of the principles, practices, and policies categories, and one elective, selected from any of those three categories listed in Part III-B, Curriculum. All sustainable urbanism certificate students also must select the collaborative studio.
3. The student must complete a professional study, thesis, or dissertation with a Sustainable Urbanism focus approved by the Sustainable Urbanism Certificate Council, as required by the student's degree program. The credit hours taken in support of the professional study, thesis, or dissertation are over and above the 18 hour requirement in Sustainable Urbanism course work. The Professional Study or Capstone Project is an independent individual or team project that satisfies the requirements of the student's degree program(s). To earn a Sustainable Urbanism Certificate, the Chair of the student's graduate committee, and at least one other member, must be from the Sustainable Urbanism Program faculty. A student may choose to conduct a Professional Study working on a problem being engaged by an approved sustainable urbanism studio, as long as the student's work is identifiable as his or her own individual product.
4. On completion of all the requirements for the graduate degree, the student will receive a Sustainable Urbanism 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 Sustainable Urbanism 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 Sustainable Urbanism Certificate requirements. Students are encouraged to consult with their Graduate Advisory Committee *and* a member of the Sustainable Urbanism Certificate Council as they develop their degree plans.

PART III-A: Approved Courses for the Certificate

The Sustainable Urbanism Certificate Council lists pre-approved courses that meet the requirements for Sustainable Urbanism content. The list, together with associated syllabi and names of instructors, will be on file in the Sustainable Urbanism Program Office, which is located in the Landscape Architecture and Urban Planning 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 Sustainable Urbanism course of study. This written statement, supported by a copy of the course syllabus, will be reviewed by the Sustainable Urbanism Certificate 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 Sustainable Urbanism content and the student's specific role in working with that content must be co-signed by the course instructor. Courses not acceptable for use toward a graduate degree at Texas A&M University will not be approved under any circumstances.

Where the Sustainable Urbanism Certificate 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 Sustainable Urbanism Certificate Council will be made to the academic dean of the College of Architecture.

PART III-B: Curriculum

Students select one course from each of the Principles, Practices, and Policies Categories, plus one course from any of the three categories, plus the collaborative studio.

Principles – History and Theory

Structure and Function of Cities	Plan 610	Neuman	Fall
Planning for Healthy Communities	Plan 633	Sweeney	Spring
Sustainable Urbanism History and Theory	Plan 664	Neuman	Spring
Placemaking	Arch 689	Tabb	Fall
Urban Geography	Geog 616	Bednarz	Fall

Practices – Methods and Skills

Sustainable Site Planning	Arch 310	Abrams	Spring
Housing Production	COSC 662	Graham	Spring
Sustainable Construction	COSC 689	Burt	Fall
Earth Construction	COSC 689	Burt	Summer
Environment and Development	LDEV 661	McCarthy	Spring
Sustainable Development	LDEV 671	McCarthy	Spring

Policies – Analysis and Evaluation

Sustainable Building Design	Arch 622	Various	TBD
Historic Preservation	Arch 646	Woodcock	Spring
Sustainable Infrastructure	Plan 669	Neuman	Fall
Sustainable Transportation	Plan 689	Zhang	Spring
Visual Quality Analysis	Land 661	Ulrich	Spring

Design and Planning Studios

Collaborative Studio	various*	Various	Spring
Sustainable Urbanism Studio	various**, ***	Various	Fall

* Approved sections of Land 621 and Plan 662/663, and an approved Architecture studio satisfy this course.

** Each year an approved listing of sustainable urbanism studio sections will be posted. Studios that satisfy this option are Land 620 and Arch 607. Urban Design studios in approved study abroad programs (Alexandria, Barcelona, Santa Chiara) may substitute for the fall sustainable urbanism studio.

*** Architecture students register for the urban design sections of Arch 607.

PART III-C: Program Faculty

The following Faculty Fellows and staff of the Center for Housing and Urban Development have special expertise appropriate to Sustainable Urbanism and are eligible to serve on Graduate Committees:

Robin Abrams *	Architecture
Robert Bednarz	Geography
Richard Burt *	Construction Science
Charles Graham	Construction Science
Chang-Shan Huang *	Landscape Architecture
Marlynn May *	Center for Housing and Urban Development
Michael McCarthy	Land Development
Jody Naderi *	Landscape Architecture
Michael Neuman *	Urban Planning
Malcolm Quantrill	Architecture
George Rogers	Urban Planning
Donald Sweeney	Urban Planning
Keith Sylvester	Construction Science
Phillip Tabb *	Architecture
Roger Ulrich	Architecture and Landscape Architecture
David Woodcock	Architecture
Tom Woodfin	Landscape Architecture
Ming Zhang *	Urban Planning

* Certificate Council Members

PART III-D: Approved Courses Outside the College of Architecture

GEOG 616	<i>Urban Geography</i>
GEOG 619	<i>Human Impact on the Environment</i>
RENR 664	<i>Coastal Zone Management</i>
RPTS 646	<i>Heritage Tourism</i>
RPTS 666	<i>Tourism and the Natural Environment</i>
SOCI 620	<i>Human Ecology</i>

This list will be expanded as courses become available.

PART IV-A: Model Degree Plan for Master of Urban Planning Students

Fall Semester I	PLAN 604	Planning Methods I	3
	PLAN 610	Structure and Function of Cities	3
	PLAN 640	Law & Legislation Related to Planning	3
	<i>PLAN 669</i>	<i>Urban Infrastructure Planning</i>	<u>3</u>
			12
Spring Semester I	PLAN 613	Planning Methods II	3
	PLAN 658	Plan Implementation	3
	PLAN 664	Planning Theory & History	3
	<i>ARCH 310</i>	<i>Site Planning</i>	<u>3</u>
			12
Summer		Professional Internship	1
Fall Semester II	<i>ARCH 689</i>	<i>Placemaking</i>	3
	PLAN 693	Professional Study	2
	PLAN	Elective or Free Elective	3
	PLAN	Elective or Free Elective	<u>3</u>
			11
Spring Semester II	<i>PLAN 662</i>	<i>Applied Planning I</i>	3
	<i>PLAN 663</i>	<i>Applied Planning II</i>	3
	<i>PLAN 689</i>	<i>Sustainable Transportation</i>	3
	PLAN	Elective or Free Elective	<u>3</u>
			12
Minimum Hours Standard Degree			48

* *SUSTAINABLE URBANISM courses in italics*

PART IV-B: Model Degree Plan for Master of Science in Construction Management

Fall Semester I	COSC 681	Seminar	1
	COSC 690	Construction Science Research	3
	STAT 651	Research Statistics I	3
	<i>PLAN 610</i>	<i>Structure and Function of Cities</i>	<u>3</u>
			10
Spring Semester I	COSC 621	Construction Project Scheduling	3
	<i>COSC 662</i>	<i>Contemporary Housing Production</i>	3
	<i>ARCH 646</i>	<i>Historic Preservation</i>	<u>3</u>
			9
Fall Semester II	COSC 670	Introduction to Facilities Management	3
	<i>COSC 689</i>	<i>Sustainable Construction</i>	3
	COSC 693	Research Proposal Development	<u>2</u>
			8
Spring Semester II	COSC 693	Professional Paper	3
	<i>PLAN 662/663</i>	<i>Collaborative Studio</i>	<u>6</u>
			9
Minimum Hours Standard Degree			36

* *SUSTAINABLE URBANISM classes in italics*

** Model Degree Plan is for non-thesis option

*** Entrance into the Graduate Program in Construction Management may require some leveling or prerequisite courses before core curriculum courses can be taken. These will be determined on a case-by-case basis depending upon the prior education and experience of applicants and will follow departmental standards.

PART IV-C: Model Degree Plan for Master of Landscape Architecture Students

Fall Semester I	LAND 620	Open Space Development I	5
	LAND 640	Research Methods	3
	RLEM 602	Ecology and Land Use	3
	<i>PLAN 610</i>	<i>Structure and Function of Cities</i>	<u>3</u>
			14
Spring Semester I	<i>LAND 621</i>	<i>Open Space Development II</i>	5
	LAND 681	Final Study Pre-Proposal	1
	<i>LDEV 661</i>	<i>Environment and Development</i>	3
	<i>LDEV 671</i>	<i>Sustainable Development</i>	<u>3</u>
			12
Summer	LAND 684	Internship	4
Fall Semester II	LAND 630	Development of Landscape Architecture	3
	LAND 693	Final Study Proposal	3
	Elective		3
	Elective		<u>3</u>
			12
Spring Semester II	LAND 693	Final Study	4
	LAND 646	Professional Practice	3
	<i>PLAN 689</i>	<i>Sustainable Transportation Design</i>	<u>3</u>
			10
Minimum hours standard degree			52

* *SUSTAINABLE URBANISM classes in italics*

PART IV-D: 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 III	<u>3</u>
			12
Spring Semester I	ARCH 606	Design II	6
	<i>PLAN 689</i>	<i>Sustainable Transportation Design</i>	3
	ARCH	History Elective	<u>3</u>
			12
Summer	ARCH	Architecture Elective	3
Fall Semester II	ARCH 607	Design III	6
	<i>PLAN 610</i>	<i>Structure and Function of Cities</i>	3
	<i>ARCH 689</i>	<i>Placemaking</i>	3
	ARCH 685	Final Study Prep	<u>1</u>
			13
Spring Semester II	ARCH 693	Professional Study	6
	ARCH 657	Professional Practice	3
	<i>COSC 662</i>	<i>Sustainable Housing Production</i>	<u>3</u>
			12
Minimum hours standard degree			52

* *SUSTAINABLE URBANISM classes in italics*

** Professional Studies will be an independent project conducted as part of the spring collaborative studio, unless otherwise approved by the M. Arch. degree coordinator and the Sustainable Urbanism Certificate Council.

PART IV-E: Model Degree Plan for Master of Science in Architecture Students

Fall Semester I	CARC 601	Foundations of Research	3
	CARC 603	Research Communications	3
	ARCH	Minor Elective	3
	<i>PLAN 610</i>	<i>Structure and Function of Cities</i>	<u>3</u>
			12
Spring Semester I	<i>ARCH 646</i>	<i>Historic Preservation</i>	3
	<i>COSC 662</i>	<i>Sustainable Housing Production</i>	3
	<i>PLAN 662/663</i>	<i>Collaborative Studio</i>	6
	ARCH 685	Thesis Proposal Preparation	<u>1</u>
			13
Fall Semester II	ARCH 691	Thesis	6
	ARCH	Minor Elective	3
	<i>ARCH 689</i>	<i>Placemaking</i>	<u>3</u>
			12
Minimum hours standard degree			32
Actual Degree Plan with Sustainable Urbanism Certificate Courses			37

* *SUSTAINABLE URBANISM courses in italics*

PART IV-F: Model Degree Plan for Master of Science In Land Development Students

Fall Semester I	LDEV 664	Market Analysis for Development	3
	LDEV 667	Design and Development Economy	3
	FINC 635	Financial Management	3
	<i>PLAN 669</i>	<i>Urban Infrastructure Planning</i>	<u>3</u>
			12
Spring Semester I	LDEV 668	Land Development Practice	3
	PLAN 640	Law and Legislation re. Planning *	3
	FINC 639	Real Estate Development Analysis	3
	ACCT 640	Accounting Concepts and Procedures	<u>3</u>
			12
Summer Semester	LDEV 661	Development and the Environment **	3
	LDEV 671	Sustainable Development	3
	LDEV 687	Development Feasibility and Design I	3
	LDEV 688	Development Feasibility and Design II	<u>3</u>
			12
Fall Semester II	LDEV 693	Professional Study	3
	<i>PLAN 610</i>	<i>Structure and Function of Cities</i>	<u>3</u>
			6
Spring Semester II	<i>COSC 662</i>	<i>Housing Production</i>	3
	<i>PLAN 662/663</i>	<i>Collaborative Studio</i>	<u>6</u>
			9
Minimum hours standard degree			42
Actual degree plan with Sustainable Urbanism Certificate courses			51

SUSTAINABLE URBANISM classes in italics

* LDEV 662 Land Development Law may be substituted

** or approved alternate

*** Entrance into the Graduate Program in Land Development may require some leveling or prerequisite courses before core curriculum courses can be taken. These will be determined on a case-by-case basis depending upon the prior education and experience of applicants and will follow departmental standards.

PART IV – G: Degree Plan for Students Outside the College of Architecture

Students seeking a Sustainable Urbanism Certificate who are in graduate programs not listed above should consult with their Degree Coordinators and a member of the Sustainable Urbanism Certificate Council.

PART V: Summary of Steps Required to Earn the Sustainable Urbanism Certificate

Step One: Students meet with a member of the Sustainable Urbanism Certificate Council prior to filing an application and completing a degree plan.

Step Two: *Initial Application for the Certificate.* At the time a degree plan is filed, the student will complete an Initial Application for the Sustainable Urbanism 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 application is retained on file at the CARC Graduate Programs Office. The Sustainable Urbanism Certificate Council will review the Initial Application for compliance with the requirements for content. If an initial application for a Sustainable Urbanism Certificate is submitted after filing a degree plan, then the student may need to revise the degree plan, which may delay timely progress toward degree completion.

Step Three *Review of the Final Application.* Master's level students must provide the Sustainable Urbanism Certificate Council with an abstract and any supporting justification as may be required to evaluate the topical relevance to Sustainable Urbanism of 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 Sustainable Urbanism Certificate Council with an abstract and any supporting justification as may be required to evaluate the topical relevance to Sustainable Urbanism of their dissertation. This information must be submitted after the defense of the dissertation proposal. The Sustainable Urbanism Certificate Council will review the Final Application for compliance with the requirements for content and forward its recommendation to the College of Architecture Graduate Programs Office.

Step Four: *Granting of the Certificate.* At the time the student is approved for receipt of a relevant graduate degree, the College of Architecture Graduate Programs Office will review the approved certificate courses and advise the Dean of the College of Architecture of successful completion. The Dean of the College of Architecture will then authorize the granting of the Sustainable Urbanism Certificate.

PART VI: Policy for Maintaining Student Records

Official Sustainable Urbanism 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 College of Architecture Graduate Programs Office. For reference purposes the College of Architecture Graduate Programs Office will create and maintain a database showing all students who have received, or are currently enrolled in, the Sustainable Urbanism 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 Sustainable Urbanism Program Office, 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 College of Architecture Graduate Programs Office, and personal data will not be released, except in accordance with state law and university guidelines.