Proposal for a Graduate Certificate in City Design

Introduction
The Graduate Certificate in City Design is a joint certificate program between the School of Architecture and the Department of Landscape Architecture in the College of Design at North Carolina State University.

We have reached a significant turning point in the planning and design of American cities. It is now an accepted fact that American culture has moved into the post-automobile era, which has major ramifications for the design of cities. This is largely due to three factors: 1) a major study published in the *New England Journal of Medicine* linking the high rate of cardio-vascular disease in America to the way American cities are designed - to discourage walking and failing to promote healthy lifestyles; 2) the sprawl of American cities has reached a point where it is no longer possible to develop raw land within a reasonable commute to the city center; and 3) a significant shift in American lifestyles away from the nuclear family, requiring increased diversity in housing provision. These factors have caused a widespread renewal of interest in center city redesign/redevelopment on the part of architects, landscape architects, urban designers, city planners and the property development community. Revitalization of the nation's urban infrastructure is a key element of the federal administration's incentive package.

The aim of this certificate program is to certify that students undertaking the program have had extensive exposure to the knowledge base and practice of design at an urban scale. This is accomplished through a 15-hour sequence of courses centrally focused on the design of cities, history and theories of urbanism, and city design methodologies, including a minimum of one advanced city design studio. Students are required to undertake a nine-hour course sequence comprised of a theory and skill-based workshop (3 hours) and a city design studio (6 hours). They will take a further six hours of elective courses, as described below.

Intent of Graduate Certificate Program
The certificate program is intended to promote design inquiry and application at the scale of the city, for students and practitioners of architecture, landscape architecture, and city and regional planning. The program's objectives are:

- to consider the human condition, particularly in making significant urban places;
- design integrated systems of movement, with increased accessibility;
- promote a greater mix of and association of uses and amenities within a well-scaled urban fabric, bringing a fuller sense of equity to the city;
- foster new opportunities for energy production, collection, and saving at the local scale;
- define new means of "greening" the city;
- capture greater senses of identity, meaning, and quality within the city fabric;
- promote interdisciplinary and inter-university studies between departments at NC State and between NC State and the Department of City and Regional Planning at UNC Chapel Hill.

Market for Graduates
Design practice concerned with aspects of environmental design and planning is diversifying in light of the pressing human, ecological and economic needs faced by current society. Strong demand for such skills exists on the part of landscape architecture, urban design and architecture practices, as well as development agencies in the private, governmental, and non-profit sectors. This demand is likely to increase further due to the federal administration's goal to significantly increase investment in urban infrastructure. Karen Alschuler, Director of Urban Design + Planning at SMWM San Francisco gave a presentation on urban design education in May 2009 at the American Institute of Architects national convention. She stated that "demand for graduates with urban design skills is outstripping supply", and that there are not enough American students
graduating with the skills specific to city design: equal facility in drawing, writing and speaking; a wide breadth of travel experience; ability to engage with others; ability to handle complex problems; familiarity with research and analysis. American students were finding it difficult to compete with international students for jobs in city design because they lack experience addressing design at an urban scale. She said her firm was looking for graduates who could “inspire, diagram, draw, and tell a story”.

Interdisciplinary Initiative
This certificate is an interdisciplinary and inter-university initiative, reflecting the nature of city design practice. It aims to bring together students and faculty from landscape architecture, architecture, and city and regional planning into an interactive and team-based learning context. Implementation of this certificate program requires NO additional investment of resources.

Proposing Departments:
This is a joint proposal from the School of Architecture and the Department of Landscape Architecture.

Program Coordinator:
Robin Abrams
Head, School of Architecture
Brooks Hall 214
North Carolina State University
(919) 513-4841
robin_abrams@ncsu.edu

Faculty Participants
SCHOOL OF ARCHITECTURE
Robin Abrams, Professor and Head of School
Thomas Barrie, Professor
Paul Tesar, Professor
Georgia Bizios, Professor
Kristen Schaffer, Associate Professor
Patricia Morgado, Associate Professor
Sara Queen, Assistant Professor of the Practice

DEPARTMENT OF LANDSCAPE ARCHITECTURE
Gene Bressler, Professor and Head of Department
Art Rice, Professor and Associate Dean of Graduate Studies and Research
Kofi Boone, Assistant Professor
Robin Moore, Professor
Nilda Cosco, Education Specialist
Simon Atkinson, Visiting Professor of City Design

DEPARTMENT OF GRAPHIC DESIGN & INDUSTRIAL DESIGN
Kermit Bailey, Associate Professor
Academic Requirements for Participants

Graduate Certificate students are expected to complete a total of 15 hours of coursework. This coursework can be completed within the existing curricula of the Master of Architecture (Tracks 1, 2, and 3), and the Master of Landscape Architecture. Additionally, it is possible to earn this certificate as a post baccalaureate student. There are three methods of fulfilling this requirement: 1 studio option; 2 studio option; no studio option. Studios must be approved by the certificate coordinator in advance, as to whether they fulfill all, or a majority of the intentions of the certificate program, as stated on the first page of this document.

<table>
<thead>
<tr>
<th>Single Studio Option M.Arch Tracks 1, 2, and 3 &amp; MLA Students</th>
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<tbody>
<tr>
<td>1 studio</td>
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<tr>
<td>ARC 570/LAR 582 Anatomy of the City</td>
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<tr>
<td>ARC 503 Advanced Architectural Design (Urban) or /LAR 500 Advanced Design (Urban)</td>
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<tr>
<th>Two Studio Option M.Arch Tracks 1, 2, and 3 &amp; MLA Students</th>
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<td>2 studios</td>
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<th>Non-Studio Option</th>
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<tr>
<td>Practitioner Post-Baccalaureate Student</td>
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<tr>
<td>ARC 570/LAR 582 Anatomy of the City</td>
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<tr>
<td>Advanced Seminar from Elective Menu</td>
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Required Coursework
ARC 570/LAR 582 Anatomy of the City
   A morphological investigation of cities throughout urban history, with emphasis on formal
   principles of spatial organization. Part one: examination of the descriptive properties of
   cities in terms of interdisciplinary concepts and principles. Part two: examination of the
   organizational characteristics of urban space. Includes introduction of design methodology.

ARC 503/LAR 500 Advanced Graduate Studio (for studio options)
   This is an advanced design studio focusing on projects of an urban scale, that require team
   approaches to urban-scaled problem solving, and also providing opportunity to explore the
   integration of smaller scale architecture, landscape architecture, and physical planning
   projects within the larger design context.

The Elective Menu (3 hours for 2 studio option; 6 hours for studio options; 12 hours for
non-studio option)
SCHOOL OF ARCHITECTURE, NC STATE
ARC 503 Advanced Architectural Design (Urban)
ARC 503 Advanced Architectural Design (International)
ARC 548 Vernacular Architecture
ARC 571 Urban House
ARC 574 Place and Placemaking
ARC 575 Participatory Design in Architecture
ARC 576 Community Design
ARC 577 Sustainable Communities
ARC 578 Ecological Design
ARC 590 Special Topics (topics vary, by approval of certificate coordinator)

Examples of applicable seminars that have been taught since 2010
   History of American City Planning (Schaffer)
   City of New Orleans (Schaffer)
   World Trade Center (Schaffer)
   Plan of Chicago (Schaffer)
   Architecture as Infrastructure (Queen)
   Affordable Housing (Bizios)

DEPARTMENT OF LANDSCAPE ARCHITECTURE, NC STATE
LAR 500 Advanced Studio
LAR 511 Community Design Policy
LAR 565 Landscape Architecture International Studio
LAR 576 Community Design
LAR 577 Sustainable Communities
LAR 579 Human Use of the Urban Landscape
LAR 582 Special Topics (topics vary, by approval of certificate coordinator)

Additional Opportunities
Students in the City Design Graduate Certificate Program will join an academic and professional
community that offers a broad range of extracurricular activities. These include the College of
Design annual Urban Design Conference, visiting lecturers, colloquia, and City Forum, a regularly
scheduled series of brown bag discussions coordinated by the City of Raleigh Urban Design
Center.

With permission of the certificate coordinator, students may take elective coursework in the
Department of City & Regional Planning at the University of North Carolina Chapel Hill. Such
courses may include:

PLAN 741 Land Use and Environmental Planning
Graduate Certificate in City Design
College of Design, NC State

PLAN 550 Evolution of the American Urban Landscape
PLAN 636 Urban Transportation Planning
PLAN 637 Public Transportation
PLAN 651 Urban Form and the Design of Cities
PLAN 738 Transportation Policy and Planning
PLAN 744 Development and Environmental Management
PLAN 745 Development Impact Assessment
PLAN 757 Planning for Historical Preservation
PLAN 760 Real Estate and Affordable Housing
PLAN 762 Central City Revitalization
PLAN 763 Urban Neighborhood Revitalization
PLAN 765 Real Estate Development
PLAN 799 Diversity and Inequality in Cities

Application Process
Applicants must complete an application form to be considered for the certificate program (example attached).

To qualify for admission to the Graduate Certificate in City Design, students must be enrolled in, or have completed, a professional program in architecture, landscape architecture, or urban planning. Students must have at the time of application a 3.00 grade point average in their professional degree program.

City and Regional Planning students have two pre-requisites to become eligible for the Graduate Certificate Program: PLAN 714 Urban Spatial Structure and PLAN 752 Site Planning and Sustainable Design.

Graduate Certificate Completion
To receive a Graduate Certificate, a student must complete 15 hours of coursework, and have a minimum 3.00 grade point average (GPA) on all certificate course work. All grades on courses taken towards the certificate program in courses numbered 400 and above are included in the GPA. Courses at the 300 level and below are not eligible for certificate credit and subsequently do not affect the graduate GPA.

The minimum grade to receive certificate credit can be no lower than a grade of B-. GCP students who take letter-graded 400-, 500- and 700-level courses do not have the option of taking the courses for "credit only" if they intend for the course to be part of their GCP. Transfer credit from other institutions is not allowed for GCP. All course work must be registered for through NC State University. All GCP requirements must be completed within four (4) calendar years, beginning with the date the student commences courses applicable to the GCP, unless a more restrictive time limit has been established by the program or academic college/school. A student may obtain more than one certificate. Each certificate must have at least nine (9) credit hours that are unique to it.

Note: Academic success might have a strong bearing on admission to a degree program, but completion of a certificate program in no way guarantees entry into a graduate degree program, which is done through a separate application process.
Application for Graduate Certificate in City Design
College of Design
NC State University

Name: ___________________________________     Student ID: _______________________
Address: _____________________________________________________________________
Phone(s): _____________________________     Email: _______________________________

Degree Program: (please circle)     M.Arch.     M.L.A.     M.C.R.P.     Ph.D. (Design)

Other: ________________

Please list the courses you propose to take to meet the City Design Graduate Certificate Requirements.

<table>
<thead>
<tr>
<th>Required Studio</th>
<th>Required Seminar</th>
<th>Elective</th>
<th>Elective</th>
<th>Elective</th>
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</thead>
<tbody>
<tr>
<td>Course No. &amp; Title</td>
<td>ARC 570 Anatomy of the City</td>
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<tr>
<td>Semester</td>
<td>Fall</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>No. Hours</td>
<td>3</td>
<td></td>
<td></td>
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<tr>
<td>TOTAL HOURS</td>
<td>3</td>
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Total Credit Hours Towards Graduate Certificate: _______

Signature of Student ___________________________________ Date

Signature of Degree Coordinator ___________________________________ Date

Signature of Graduate Certificate Coordinator _______________________________ Date