



MASTER'S PROGRAM FOR INTERNATIONAL STUDENTS IN

ARCHITECTURE AND URBAN DESIGN

ABOUT THE PROGRAM:

Introduction

As the global climate becomes more unpredictable, coping with the environment is essential for humanity. Architecture is the art and technology of dealing with this issue for all living creatures. Thus, our department focuses its pedagogical efforts on ecological balance and plans our classes accordingly.

Mission Statement

Our program aims to mold a future spatial designer with a comprehensive understanding of architecture. Through a series of professional classes, students are trained according a well-thought out process to create a self-learning environment enabling students to learn without learning.

Features

To promote the education of international students, this course will be taught in English. We offer a total of 36 credits, which includes practical training, BIM, sustainable environment, spatial coloring theory, landscape ecology, planning and operational research. By providing this program, we intend to create a more multi-aspected and international environment.

Admission

1. With college degree in:
Architecture, architecture engineering, urban design, civil engineering, environmental engineering, policy and planning, urban affairs, gardening and landscape, land resources or other related bachelor degrees.
2. Alternative
 - 1) Undergraduate programs in the above majors
 - 2) Community college degree in architecture or architecture engineering or approved degrees by our department.
 - 3) Person who has passed a national exam in architecture engineering or urban planning subjects.
3. Required application data
 - 1) copy of degree
 - 2) official transcript

- 3) autobiography
- 4) statement of study
- 5) 2 letters of recommendation
- 6) portfolio
- 7) minimum TOEFL score 480, mailed direct from test institution

Program Structure

To achieve the goal of creating higher level professional practitioners, this program offers various advanced courses.

Credits Needed to Graduate:

- 1. Minimum credits for graduation: 30
- 2. Master thesis or Ph.D. dissertation.
- 3. At least 2 public presentations before graduation.

COURSE INFORMATION:

Required Courses

Course	Unit	Course Description
ARCHITECTURE AND URBAN DESIGN STUDIO (1)	3 credits	This course is designed to familiarize students with the process and development of urban design by exploring modern urban design theories, different urban forms, particularly their socio-economic and political factors, as well as the cultural and technological influences on urban design.
ARCHITECTURE AND URBAN DESIGN STUDIO (2)	3 credits	This course is designed to familiarize students with the process and development of urban design by exploring modern urban design theories, different urban forms, particularly their socio-economic and political factors, as well as the cultural and technological influences on urban design.
RESEARCH METHODOLOGY & THESIS WRITING	2 credits	This course introduces research methodology and guidelines for writing and presenting a thesis. The research methodology is introduced step-by-step starting from problem formation, literature survey, research design, data collection tools, research proposal writing, data analysis and thesis writing. The format of writing a research paper provided by the Modern Language Association of America (MLA) is introduced in detail.

Elective Courses

Course	Unit	Course Description
SEMINAR ON OPERATIONS RESEARCH	2 credits	The course aims at training students to have a general idea of research methods. After completing the course, students should have the basic knowledge required to structure their research interests. The use of the research methodology can help architectural students investigate issues in the sciences and social sciences in a logical way.
THEORIES AND PRACTICES OF SUSTAINABLE ENVIRONMENTAL DEVELOPMENT	3 credits	To create a high quality, comfortable, and sustainable human living setting, planners have addressed urban sustainability and tried to demonstrate how ecological matters can be integral to different settings, through adopting different approaches such as Compact City, T.O.D., Neo-traditional Neighborhood, Urban Indicators, and so on. In fact, “sustainable development” is about the “integrated approach” and “consideration of the trade-off between different aspects,” and the comparison of sustainable achievement degree is meaningless. Therefore, this course aims to understand the concepts of ecological, social, and economic sustainable developments, and to link urban development strategies with urban sustainability.
LANDSCAPE ECOLOGY	2 credits	Landscape ecology studies the interaction between spatial patterns and ecological processes. This course will cover the concepts related to scale and spatial patterns, and discuss the causes and consequences of landscape patterns.
QUANTITATIVE METHODS FOR PLANNING	2 credits	This course aims at teaching students statistical techniques and quantitative methods commonly used in urban and regional planning. It covers: (1) Data measurement, sampling survey and data Processing. (2) Non-parametric statistics, (3) Parametric statistics, and (4) Other quantitative models.
ENVIRONMENTAL AND SPATIAL PLANNING INFORMATION SYSTEM	3 credits	This course provides an opportunity to students to learn the basic GIS analysis skills and policy decision ability.

<p>SEMINAR ON ARCH. & URBAN DEVELOPMENT</p>	<p>2 credits</p>	<p>Discussion on the basic issues of architecture and urban development, and how they are being dealt with.</p>
<p>CITY MORPHOLOGY</p>	<p>2 credits</p>	<p>Urban design is an art, and like all design it does have to consider, or at least pay lip service to human behavior. Hence this course is full of references to the studies of urban form. This training can provide a wide range of understanding of architecture and urban design.</p>
<p>SEMINAR ON LANDSCAPE AND ECOLOGICAL PLANNING AND DESIGN</p>	<p>3 credits</p>	<p>To plan, design and manage aesthetically pleasing, sustainable spaces fit for multiple purposes, the seminar aims to provide a discipline concerned with the conscious shapes of the external environment, and to combine scientific understanding and design creativity, knowledge of manmade materials, and structures for students, through integrating a comprehension of land-use and ecosystems. The materials include planning, design and management of the landscape to create, maintain, protect and enhance external space for a diverse range of human needs and professions.</p>
<p>SEMINAR ON ENVIRONMENTAL CREATIVE INDUSTRY</p>	<p>2 credits</p>	<p>This course is positioned as a part of “creative industries.” However, since government policy promotes culture while providing a limited scope for cultural arts and technology, it seems that coverage of Taiwan’s environmental characteristics, uniqueness and possible derivation of international competitiveness is insufficient. Accordingly, this course is intended to complement the “Cultural Creative Industries” course provided by other related college departments. Seeking to stimulate students from a broader perspective, an in-depth understanding of the local environment will serve to explore how different levels of environment-oriented industry can be derived and how these industries can be competitive and innovative to produce economic and employment opportunities.</p>
<p>SPECIAL TOPICS IN URBAN ECOLOGY</p>	<p>2 credits</p>	<p>The urban environment is characterized by its dominance of human habitation and activity. Through the review and discussion of literature, we shall review issues in urban ecology and discuss methods in which urban landscape planning and design may enhance the natural processes within the city’s</p>

		boundaries and achieve goals of sustainability.
SEMINAR ON URBAN AND REGIONAL PLANNING	3 credits	Overview of the historical development of urban and regional planning, as well as prominent theories of urban planning practice. Emphasizing the connection between the theoretical and historical material and current planning practice.

FACULTY

Professor	Position	Educational Background
Chairman Ming-Cheu Chen	Professor	Master of Urban Design, Columbia University, U S A Master of Architecture, Ohio University, USA
Deam Monica Kuo	Associate Professor	M. L. A. in University of Pennsylvania, Graduate School of Fine Arts
Dr. Chien-Ell Huang	Professor	Ph.D., Waseda University
Dr.Chung-Hsin Yang	Professor	Ph. D., in University of Pennsylvania
Dr. Chung-Jen Kuo	Associate Professor	Ph.D., Design and Computation, Architecture and Design School, University of California – Los Angeles, USA.
Dr. Yin-Hao Chiu	Associate Professor	Ph.D., Architecture and Built Environment, University of Nottingham MSc, School of Architecture, Cardiff University of Wales
Dr. Te-I Albert Tsai	Assistant Professor	Ph. D. in Design and Planning , University of Colorado
Dr. Chi-Ru Chang	Associate Professor	Ph. D., Duke University
Dr. Wei-Bin Chen	Associate Professor	Ph.D., City and Regional Planning. The Ohio State University

Kai-Tai Lin	Associate Professor	M. L. A., University of California at Berkeley, CA M. L. A. in National Taiwan University, Department of Horticulture
Dr. Chun-Lin Lee	Assistant Professor	Ph. D., National Taipei University
Dr. Hsiu-Chu Hsu	Assistant professor	Northern Illinois University, USA

Contact Information

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