

# HUMAN CENTERED DESIGN

## College of Human Ecology

### Graduate Study in Design + Environmental Analysis

## Master of Science in HUMAN ENVIRONMENT RELATIONS

### Two-Year Graduate Program

### CONCENTRATION: Facility Planning and Management

The Facility Planning and Management Concentration is a multi-disciplinary program that draws on research, concepts, theory, and experience from the fields of facility management, psychology, organizational behavior, architecture and design, real estate, and business. The program focuses on the planning, design, and management of facilities for large, complex organizations such as corporations, health care institutions and universities. The focus is more on planning and management than on facilities operations and maintenance, though students are familiarized with issues in these areas. It also stresses how good facilities planning, design and management can help organizations' leverage their scarce resources of time, money and people to strengthen their competitive advantage. Through course work, often involving real clients, students develop the ability to analyze and develop programmatic requirements and workspace strategy, as well as implementation and evaluation strategies for workspace solutions that help organizations effectively plan, design, and manage their facilities to meet organizational goals.

Students may minor in many fields, but two of particular interest are:

- Real Estate Planning and Management
- Health Administration (Sloan Health Administration Program)

### CAREERS

Students typically take positions in corporate facility planning and management departments in large organizations (e.g., IBM, Goldman Sachs, Toyota Motor), in workplace strategy units in large consulting firms (e.g., Price Waterhouse Coopers), and in the workplace consulting units of architectural and planning firms (e.g., Gensler, HOK, Nelson). Job functions in these departments range from project management, workspace analysis and space forecasting to developing, managing, and analyzing facility databases, workspace change management, and evaluation of workspace solutions. Salaries and career advancement are excellent.

### M.S. REQUIREMENTS/SUGGESTED COURSEWORK

#### A. Required Core DEA Field Courses:

DEA 6100	Studies in Design Thinking	3 credits
DEA 6200	Studies in Human-Environment Relations	3 credits
DEA 7100	DEA Graduate Pro Seminar (1 credit / semester x 4 semesters)	4 credits

#### B. Required Foundation Courses for Concentration:

CEE 5900	Project Management	4 credits
DEA 5540	Workplace Strategy Studio	4 credits
DEA 6250	Human Dimensions of Sustainable Building <sup>i</sup>	3 credits
DEA 6500	Problem-Seeking through Programming	3 credits

#### C. Research Methods:

DEA 6560	Research Methods in Social Sciences	4 credits
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#### D. Statistics: ONE (1) 3-4 credit (5000-level or higher) course

Various	Statistics <sup>ii</sup>	3-4 credits
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**E. Business Management, Financial Theory and Practice: Choose THREE (3) credits**

As a management function, facility management includes two levels of managerial/administrative activity, financial planning and budgeting. Students need to understand such things as capital-budgeting decisions, the cost of capital and cost allocation systems.

NCC 5500	Financial Accounting	3 credits
Various	Financial Accounting Course 5000-level or higher	3 credits

**F. Real Estate Planning and Development Courses: Choose THREE (3) credits**

Acquiring and disposing of rented and owned property is an essential activity of facility management. Facilities comprise a significant component of corporate assets and of corporate operating costs. Managing these assets as an investment and profit center is also an important aspect of Facility Planning and Management.

CRP 5320	Real Estate Development Process I	1.5 credits
CRP 5321	Real Estate Development Process II	1.5 credits
CRP 5560	Creating the Built Environment	1.5 credits
CRP 5561	Innovation and Strategy in Commercial Real Estate Development	1.5 credits
HADM 6200	Principles of Real Estate (Prereq. HADM 6260, AEM 4570, NCC 5550, or NBA 5390))	3 credits

**G. Thesis Courses:**

DEA 8990	Master's Thesis <sup>iii</sup>	8-12 credits
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**H. Minor Courses:**

Various	Courses for minor varies: typically 2 or 3, 3-or 4-credit courses	6-12 credits
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Summary of Curriculum	Number of Courses	Course Credits
<b>A. Required DEA Field Courses</b>	3 <sup>iv</sup>	10
<b>B. Required Foundational Courses for Concentration</b>	4	14
<b>C. Research Methods</b>	1	4
<b>D. Statistics</b>	1	3-4
<b>E. Business Management, Financial Theory and Practice</b>	1	3
<b>F. Real Estate Planning and Development Courses</b>	1-2	3
<b>G. Thesis Courses <sup>iii</sup></b>	1-2	8-12
<b>H. Minor Field Courses</b>	3	6-12
<b>Total Courses: 15-17</b>		<b>Total Course Credits: 51-62</b>

<sup>i</sup> Suggested Alternative – PADM 5418: Strategic Stakeholder Engagement

<sup>ii</sup> e.g: BTRY 6010, BTRY 7180, ILRST 5100, ILRST 6100, PSYCH 6750, HD 6750.

<sup>iii</sup> Thesis credits determined at the discretion of thesis committee; the number of courses and credits listed merely indicate typical range.

<sup>iv</sup> Includes DEA 7100 as 1 course (but is required to be taken 4 times (1 credit each))

**NOTE:** A minimum grade of B- is required for courses taken within the major. If a grade lower than a B- is received on a course taken within the major, the student will be required to retake the course.

Course offerings may change year to year. Consult the online Courses of Study for current offerings.