



### **Twin Cities Campus**

## **Design Ph.D.**

DESIGN GRAD Administration

### **College of Design**

Link to a [list of faculty](#) for this program.

#### **Contact Information:**

Design Graduate Program, 240 McNeal Hall, 1985 Buford Avenue, St. Paul, MN 55108

Email: [dhagrad@umn.edu](mailto:dhagrad@umn.edu)

Website: <http://dha.design.umn.edu/programs/grad>

- Program Type: Doctorate
- Requirements for this program are current for Fall 2017
- Length of program in credits: 64
- This program does not require summer semesters for timely completion.
- Degree: Doctor of Philosophy

Along with the program-specific requirements listed below, please read the [General Information](#) section of the catalog website for requirements that apply to all major fields.

The design graduate program focuses on the study of relationships between humans and their designed environments. This focus is based on the assumption that design and analysis of environments contributes to the improvement of the human condition. The program addresses theory, research, and application, using a shared disciplinary base from the arts and social and behavioral sciences. The goal of the program is for students to analyze, evaluate, and integrate theoretical frameworks related to humans and their designed environments.

Applications submitted to the design graduate program specify a track and degree objective.

Formal tracks are:

Apparel studies (including dress, history, and culture; product development; and retail merchandising and consumer studies)

Graphic design (including interactive design)

Housing studies

Interior design (including evidence-based design)

## **Program Delivery**

This program is available:

- via classroom (the majority of instruction is face-to-face)

## **Prerequisites for Admission**

The preferred undergraduate GPA for admittance to the program is 3.00.

Eligibility requirements are located on the track pages of the design graduate program website:

<http://dha.design.umn.edu/programs/grad>.

#### **Special Application Requirements:**

Application requirements: <http://dha.design.umn.edu/programs/grad/admissions.html>

Applicants must submit their test score(s) from the following:

- GRE
  - General Test - Verbal Reasoning: 144
  - General Test - Quantitative Reasoning: 153
  - General Test - Analytical Writing: 4

International applicants must submit score(s) from one of the following tests:

- TOEFL
  - Internet Based - Total Score: 79
  - Internet Based - Writing Score: 21
  - Internet Based - Reading Score: 19
  - Paper Based - Total Score: 550

The preferred English language test is Test of English as Foreign Language



Key to [test abbreviations](#)(GRE, TOEFL).

For an online application or for more information about graduate education admissions, see the [General Information](#) section of the catalog website.

## Program Requirements

28 credits are required in the major.

12 credits are required outside the major.

24 thesis credits are required.

This program may be completed with a minor.

Use of 4xxx courses toward program requirements is permitted under certain conditions with adviser approval.

A minimum GPA of 3.0 is required for students to remain in good standing.

At least 2 semesters must be completed before filing a Degree Program Form.

Students may be required to complete additional credits upon recommendation of their committee.

### Design Program Core Requirements

[DES 8181](#) - Research Ethics (1.0 cr)

### Related Field Coursework

Students are required to take a minimum of 12 credits in a related field. Courses are selected with the approval of the advisor and committee.

### Doctoral Dissertation Credits

Students take a minimum of 24 credits of DES 8888. With the permission of the advisor, up to 10 credits may be taken prior to passing the preliminary oral examination.

[DES 8888](#) - Thesis Credit: Doctoral (1.0 - 24.0 cr)

## Program Sub-plans

Students are required to complete one of the following sub-plans.

Students may not complete the program with more than one sub-plan.

### Apparel Studies

The apparel studies track advances both theoretical knowledge and applications for apparel and worn products and their relationship to human behavior. Students may focus on product development; dress, history, and culture; or retail merchandising and consumer studies. Within each of these areas of emphasis within the track, the student completes related coursework as well as research or creative production that culminates in a thesis.

### Evaluation and Analysis Coursework

Students are required to take a minimum of 9 credits in evaluation and analysis, including 3 credits in statistics.

[DES 8102](#) - Quantitative research methods and data visualization (3.0 cr)

[DES 8103](#) - Qualitative Research Methods in Design (3.0 cr)

#### Statistics

Take 3 or more credit(s) from the following:

- [EPSY 5261](#) - Introductory Statistical Methods (3.0 cr)
- [EPSY 5262](#) - Intermediate Statistical Methods (3.0 cr)
- [EPSY 8252](#) - Statistical Methods in Education II (3.0 cr)
- [EPSY 8266](#) - Statistical Analysis Using Structural Equation Methods (3.0 cr)
- [EPSY 8267](#) - Applied Multivariate Analysis (3.0 cr)

### Concentration

#### Dress, History, and Culture

##### Theory and Philosophy Coursework

Students take a minimum of 6 credits in this category.

[DES 8164](#) - Innovation Theory and Analysis (3.0 cr)



[DES 8112](#) - Introduction to Design Research, Theory, and Methodology (3.0 cr)

**Dress, History, and Culture Concentration Coursework**

Take 12 or more credit(s) from the following:

- [DES 5165](#) - Design and Globalization (3.0 cr)
- [APST 5218](#) - Fashion, Design, and the Global Industry (3.0 cr)
- [DES 8112](#) - Introduction to Design Research, Theory, and Methodology (3.0 cr)
- [DES 8113](#) - Teaching and Assessment (2.0 cr)
- [DES 8115](#) - Grant Writing (2.0 cr)
- [DES 8164](#) - Innovation Theory and Analysis (3.0 cr)
- [DES 8166](#) - Material Culture and Design (3.0 cr)
- [DES 8167](#) - Aesthetics of Design (3.0 cr)
- [APST 8192](#) - Readings in Apparel Studies (1.0 - 3.0 cr)
- [APST 8193](#) - Directed Study (1.0 - 3.0 cr)
- [APST 8267](#) (*Inactive*)(3.0 cr)
- [APST 8268](#) - Behavioral Aspects of Dress (3.0 cr)

-OR-

**Product Development**

**Theory and Philosophy Coursework**

Students take a minimum of 6 credits in this category.

[DES 8112](#) - Introduction to Design Research, Theory, and Methodology (3.0 cr)

[DES 8164](#) - Innovation Theory and Analysis (3.0 cr)

**Product Development Concentration Coursework**

Take 12 or more credit(s) from the following:

- [DES 5185](#) - Human Factors in Design (3.0 cr)
- [APST 5218](#) - Fashion, Design, and the Global Industry (3.0 cr)
- [DES 8113](#) - Teaching and Assessment (2.0 cr)
- [DES 8114](#) - Design Studio (4.0 cr)
- [DES 8115](#) - Grant Writing (2.0 cr)
- [DES 8151](#) - Product Development: Theory and Practice (3.0 cr)
- [DES 8166](#) - Material Culture and Design (3.0 cr)
- [DES 8167](#) - Aesthetics of Design (3.0 cr)
- [APST 8192](#) - Readings in Apparel Studies (1.0 - 3.0 cr)
- [APST 8193](#) - Directed Study (1.0 - 3.0 cr)
- [GDES 8361](#) - Color, Design, and Human Perception (3.0 cr)

-OR-

**Retail Merchandising and Consumer Studies**

**Theory and Philosophy Coursework**

Students take a minimum of 6 credits in this category.

[APST 8272](#) - Digital Consumers: Theories in Retail and Consumer Studies (3.0 cr)

Take 3 or more credit(s) from the following:

- [APST 8268](#) - Behavioral Aspects of Dress (3.0 cr)
- [PSY 8201](#) - Social Cognition (3.0 cr)
- [SOC 8721](#) - Social Psychology: Micro-Sociological Approaches to Inequalities and Identities (3.0 cr)

**Retail Merchandising and Consumer Studies Concentration Coursework**

Take 12 or more credit(s) from the following:

- [APST 5117](#) - Retail Environments and Human Behavior (3.0 cr)
- [APST 5123](#) - Living in a Consumer Society (3.0 cr)
- [APST 5124](#) (*Inactive*)(3.0 cr)
- [DES 8113](#) - Teaching and Assessment (2.0 cr)
- [DES 8115](#) - Grant Writing (2.0 cr)
- [DES 8151](#) - Product Development: Theory and Practice (3.0 cr)
- [DES 8167](#) - Aesthetics of Design (3.0 cr)
- [APST 8267](#) (*Inactive*)(3.0 cr)
- [APST 8268](#) - Behavioral Aspects of Dress (3.0 cr)
- [APST 8271](#) - Retailing: Strategic Perspectives (3.0 cr)
- [APST 8192](#) - Readings in Apparel Studies (1.0 - 3.0 cr)
- [APST 8193](#) - Directed Study (1.0 - 3.0 cr)

**Graphic Design**

The track in graphic design focuses on design theory, process, and methods related to design practice and research. Potential areas of study include graphic design history, theory, and critical narrative; design creativity; color and design; user-centered design; design authorship; data visualization; and interactive design.



### Theory and Philosophy Coursework

Students take a minimum of 6 credits in this category.

DES 8112 - Introduction to Design Research, Theory, and Methodology (3.0 cr)  
or DES 8164 - Innovation Theory and Analysis (3.0 cr)  
or GDES 5399 ~~{Inactive}~~(3.0 cr)

### Evaluation and Analysis Coursework

Students take a minimum of 9 credits in this category, including 3 credits in statistics.

Take 6 or more credit(s) from the following:

- DES 8102 - Quantitative research methods and data visualization (3.0 cr)
- DES 8103 - Qualitative Research Methods in Design (3.0 cr)
- GDES 5388 ~~{Inactive}~~(3.0 cr)

### Statistics

Take 3 or more credit(s) from the following:

- EPSY 5261 - Introductory Statistical Methods (3.0 cr)
- EPSY 5262 - Intermediate Statistical Methods (3.0 cr)
- EPSY 8252 - Statistical Methods in Education II (3.0 cr)
- EPSY 8266 - Statistical Analysis Using Structural Equation Methods (3.0 cr)
- EPSY 8267 - Applied Multivariate Analysis (3.0 cr)

### Graphic Design Concentration Coursework

Students are required to take GDES 8361 and GDES 8362.

Take 12 or more credit(s) from the following:

- GDES 4131W - History of Graphic Design [WI] (4.0 cr)
- GDES 4330 ~~{Inactive}~~(4.0 cr)
- GDES 4345 - Advanced Typography (4.0 cr)
- GDES 5311 - Illustration (3.0 cr)
- GDES 5341 - Interaction Design (3.0 cr)
- GDES 5342 - Advanced Web Design (3.0 cr)
- GDES 5371 - Data & Information Visualization (3.0 cr)
- GDES 5372 ~~{Inactive}~~(3.0 cr)
- GDES 5383 - Digital Illustration and Animation (3.0 cr)
- GDES 5386 - Fundamentals of Game Design (3.0 cr)
- DES 8113 - Teaching and Assessment (2.0 cr)
- DES 8114 - Design Studio (4.0 cr)
- DES 8115 - Grant Writing (2.0 cr)
- GDES 8192 - Readings in Graphic Design (1.0 - 3.0 cr)
- GDES 8193 - Directed Study (1.0 - 3.0 cr)
- GDES 8361 - Color, Design, and Human Perception (3.0 cr)
- GDES 8362 - The Nature of Representation in Visual Communication (3.0 cr)

### Housing Studies

Housing studies is a multidisciplinary track that draws from a variety of theoretical perspectives. Students are trained in a variety of research methodologies. Coursework and research experiences combine to further understanding of the innovative approaches to the development of housing and related programs. Upon completion of the graduate degree, students seek housing careers in state and federal agencies, nonprofit community organizations, housing regulation, and higher education.

### Theory and Philosophy Coursework

Students are required to take a total of 6 credits in this category, including HSG 8467. Students select one additional course in theory and philosophy with the approval of the advisor and committee.

HSG 8467 ~~{Inactive}~~(3.0 cr)

### Evaluation and Analysis Coursework

Students take a minimum of 9 credits in this category, including a minimum of 3 credits in statistics.

DES 8102 - Quantitative research methods and data visualization (3.0 cr)  
DES 8103 - Qualitative Research Methods in Design (3.0 cr)

### Statistics

Take 3 or more credit(s) from the following:

- EPSY 5261 - Introductory Statistical Methods (3.0 cr)
- EPSY 5262 - Intermediate Statistical Methods (3.0 cr)
- EPSY 8252 - Statistical Methods in Education II (3.0 cr)
- EPSY 8266 - Statistical Analysis Using Structural Equation Methods (3.0 cr)
- EPSY 8267 - Applied Multivariate Analysis (3.0 cr)

### Housing Studies Concentration Coursework

HSG 5463, HSG 5467, and HSG 8463 are required.

Take 12 or more credit(s) from the following:

- HSG 4461 ~~{Inactive}~~(4.0 cr)
- HSG 4465 ~~{Inactive}~~(3.0 cr)
- HSG 5170 ~~{Inactive}~~(1.0 - 4.0 cr)



- [HSG 5193](#) - Directed Study in Housing Studies (1.0 - 4.0 cr)
- [HSG 5463](#) - Housing Policy (3.0 cr)
- HSG 5467 ~~{Inactive}~~(4.0 cr)
- HSG 5481 ~~{Inactive}~~(3.0 cr)
- HSG 5484 ~~{Inactive}~~(3.0 cr)
- [HSG 8192](#) - Readings in Housing Studies (1.0 - 3.0 cr)
- [HSG 8193](#) - Directed Study (1.0 - 3.0 cr)
- HSG 8463 ~~{Inactive}~~(3.0 cr)
- HSG 8170 ~~{Inactive}~~(1.0 - 3.0 cr)
- HSG 8180 ~~{Inactive}~~(1.0 - 2.0 cr)
- [DES 8113](#) - Teaching and Assessment (2.0 cr)
- [DES 8115](#) - Grant Writing (2.0 cr)

### Interior Design

Graduate study in the interior design track emphasizes the theory, research, and specialized practice components of design as applied to people's health, safety, and welfare in the interior environment, including design education, sustainability, social/cultural issues, aspects of professional practice, and facilities research (educational, office, criminal justice, and residential). Students are prepared for teaching and research positions as well as design specializations within the profession. The evidence-based design emphasis provides students with the opportunity to explore theoretical, process, and applied aspects of this design practice approach.

### Theory and Philosophy Coursework

Students take DES 8112 and choose either DES 8164 or DES 8166 for a total of 6 credits in this category.

[DES 8112](#) - Introduction to Design Research, Theory, and Methodology (3.0 cr)

Take 3 or more credit(s) from the following:

- [DES 8164](#) - Innovation Theory and Analysis (3.0 cr)
- [DES 8166](#) - Material Culture and Design (3.0 cr)

### Evaluation and Analysis Coursework

Students take a minimum of 9 credits in this category, including a minimum of 3 credits in statistics.

[DES 8102](#) - Quantitative research methods and data visualization (3.0 cr)

[DES 8103](#) - Qualitative Research Methods in Design (3.0 cr)

### Statistics

Take 3 or more credit(s) from the following:

- [EPSY 5261](#) - Introductory Statistical Methods (3.0 cr)
- [EPSY 5262](#) - Intermediate Statistical Methods (3.0 cr)
- [EPSY 8252](#) - Statistical Methods in Education II (3.0 cr)
- [EPSY 8266](#) - Statistical Analysis Using Structural Equation Methods (3.0 cr)
- [EPSY 8267](#) - Applied Multivariate Analysis (3.0 cr)

### Interior Design Concentration Coursework

Take 12 or more credit(s) from the following:

- [DES 5165](#) - Design and Globalization (3.0 cr)
- [DES 5168](#) - Evidence-Based Design (3.0 cr)
- [DES 5185](#) - Human Factors in Design (3.0 cr)
- [DES 8113](#) - Teaching and Assessment (2.0 cr)
- [DES 8115](#) - Grant Writing (2.0 cr)
- [IDES 8192](#) - Readings in Interior Design (1.0 - 3.0 cr)
- [IDES 8193](#) - Directed Study (1.0 - 3.0 cr)
- [GDES 8361](#) - Color, Design, and Human Perception (3.0 cr)