This is the College of Design General Information and Degree Programs section of the 2008-2010 Undergraduate Catalog.
College of DESIGN

General Information

The College of Design encompasses the full range of design disciplines from graphic design, apparel design, and interior design to architecture, landscape architecture, and urban design. The college also includes programs in housing studies and retail merchandising. The faculty and students in the college seek to advance the quality and value of the natural, designed, and social environments, with a focus on the interaction of people and their physical world.

Through their design education, students develop creative powers of generalization and abstraction using analysis and synthesis. This training also gives them a broad understanding of the arts, humanities, and sciences; a knowledge of technology, history, theory, and professional practice; the skills necessary to develop, explore, and describe ideas; and a belief in the aesthetic, ethical, and environmental responsibilities of designers and those in related disciplines.

The college offers the only accredited degrees in architecture, landscape architecture, and interior design in Minnesota, as well as top-rated programs in the other design fields. The undergraduate programs offer both professional and pre-professional degrees, as well as degrees that have a liberal arts and general design focus. The graduate programs range from first-professional degrees to degrees with a creative practice or research emphasis. Faculty members have close working relationships with industry professionals, who collaborate on discovery and outreach, participate in special programming, and serve as a network for students seeking internships and post-graduation opportunities.

Facilities—The college is located primarily in Rapson Hall on the Minneapolis campus and McNeal Hall on the St. Paul campus. These two buildings offer some of the best facilities in the country in which to study design, featuring dramatic interior spaces, new equipment and furnishings, and outdoor teaching areas. In addition to classroom, studio, and office space, the college has specialized facilities, including woodshops, computer labs, and photographic studios. The visual resources collection comprises approximately 100,000 slides and digital images to support student and faculty research and educational activities, while the library in Rapson Hall has a collection of more than 34,675 volumes.

The college has an extensive lecture and exhibition program. The lecture series brings to campus nationally known speakers who address issues that cut across many of the disciplines in the college, while the HGA Gallery in Rapson Hall presents both original and traveling shows. In both Rapson and McNeal Hall, display space features student work as well as that of the professional community. In addition, the college is unique in housing the Goldstein Museum of Design, an internationally recognized teaching museum and research center for interpreting the vital role of art in everyday life and the only design museum in the upper midwest. Located in McNeal Hall, the museum collects, preserves, documents, and exhibits clothing, textiles, and decorative and graphic arts, with an emphasis on objects of the late 19th and 20th centuries. It promotes the study and enjoyment of these objects within their social, cultural, aesthetic, and historic contexts.

The college’s research centers also enrich the education of its students. These include the Human Dimensioning Laboratory, which provides an innovative facility for designing new methods of incorporating human dimensions in the development of wearable products; the Digital Design Consortium, which develops the digital design tools practitioners will use in the future; the Metropolitan Design Center, which works with metro-area communities on a range of urban design issues; the Center for Sustainable Building Research, which addresses the ecological impact of the designed environment; and the Center for Rural Design, which grapples with the changes occurring in rural communities.

For more information on the college’s resources, see the College of Design’s Web site at www.design.umn.edu.

Admission

Application policies and deadlines vary by program. Policies are subject to change. For current information, contact the following offices:

Freshmen and transfer students from schools outside the University of Minnesota (or with work only completed through the College of Continuing Education at the University of Minnesota):

University of Minnesota Admissions Office
612-625-2008
http://admissions.tc.umn.edu

Transfer students from other University of Minnesota colleges (e.g., CLA, IT) or coordinate campuses:

College of Design
612-624-1717

Visiting the College of Design

The college strongly encourages prospective students to meet with an adviser for more information about the college’s programs, tour the facilities, and discuss internship and career opportunities. To arrange a visit, prospective freshmen should call the Office of Admissions Visitline at 612-625-0000. Prospective transfer students should call the College of Design at 612-624-1717.

Degrees/Majors

The College of Design offers the following degrees and majors.

- Bachelor of science (B.S.) degree with majors in architecture, clothing design, graphic design, housing studies, interior design, retail merchandising
- Bachelor of design in architecture (B.D.A.) through the School of Architecture
- Bachelor of environmental design (B.E.D.) through the Department of Landscape Architecture
- Bachelor of arts (B.A.) with a major in architecture offered in cooperation with the College of Liberal Arts

 Majors in clothing design, graphic design, housing studies, interior design, and retail merchandising prepare students to understand human behavior and design in order to enhance the well-being of individuals and communities, as well as to prepare for advanced academic and professional work.

 Majors in architecture or environmental design give students similar preparation for advanced academic and professional degree work in design, but also establish a strong foundation for other careers that create and sustain the ecological, technological, cultural, and aesthetic well-being of built and conserved environments. These are nonprofessional degrees; students who want to become licensed architects and landscape architects will need to pursue a professional graduate degree—the College of Design offers the master of architecture (M.Arch.) or the master of landscape architecture (M.L.A.) for
students who wish to pursue these career paths. The bachelor of science with a major in architecture includes an accelerated status option to allow qualified undergraduates to complete the undergraduate and master of architecture degrees in six years rather than seven. Qualified undergraduates may also complete the nonprofessional bachelor of environmental design and the master of landscape architecture degrees in six years rather than seven.

Through the Graduate School, the College of Design offers both professional and post-professional, fully accredited graduate degree programs in architecture and landscape architecture. Students interested in the master of arts, master of fine arts, and doctor of philosophy degrees offered in the Department of Design, Housing, and Apparel will find information about these degrees through the Graduate School. Graduate-level certificates are also available in housing studies or metropolitan design.

**Minors**
The College of Design offers the following minors:

- Architecture
- Design
- Environmental design
- Housing studies
- Retail merchandising

See the Degree Programs section for details on these minors.

**Commencement**
The College of Design holds official commencement exercises once a year in the spring. Students who have applied to graduate are provided information about commencement.

**Honors**
Beginning in fall 2008, the University Honors Program (UHP) will offer rigorous and interdisciplinary curricula along with other honors experiences designed for highly qualified and motivated students. Honors courses, available only to honors students, offer small class sizes, close interaction with world-class faculty, and an engaging learning atmosphere. The University Honors Program serves honors students in all colleges. See the University Honors Program section at the front of this catalog for more information, or visit the University Honors Program Web site at [www.honors.umn.edu](http://www.honors.umn.edu).

Students admitted before fall 2008 will continue to follow the honors requirements outlined at the time they entered their college honors program. All students admitted to honors as of fall 2008 will follow the requirements of the new University Honors Program. Students admitted to a college honors program before fall 2008 and who change colleges must apply to the UHP if they want to participate in Honors. If admitted, they will be held to the new UHP requirements. See the University Honors Program section of this catalog for further instructions on how to apply.

---

**Professional Registration**
The College of Design provides Minnesota’s only accredited professional degree programs in interior design (B.S.), architecture (M.Arch.), and landscape architecture (M.L.A.). The Graduate School awards both master’s degrees.

In the United States, most state registration boards require a degree from an accredited professional degree program as a prerequisite for licensure. The National Architectural Accrediting Board (NAAB), which is the sole agency authorized to accredit U.S. professional degree programs in architecture, reaccredited the College of Design’s M.Arch. program to 2009–10 without qualifications. The Landscape Architectural Accreditation Board (LAAB) fully reaccredited the M.L.A. degree. The Council for Interior Design Accreditation (CIDA) has accredited the College of Design’s interior design program—the only four-year program in the state.

For more information concerning professional registration, contact the Minnesota Board of Architecture, Engineering, Land Surveying and Landscape Architecture, and Interior Design (651-296-2388).

**Policies**
College of Design students are responsible for complying with all University policies. See the Policies section of this catalog.

**Academic Integrity**—College of Design students are expected to behave responsibly and ethically. College of Design students, faculty, and staff work together to create and sustain a climate of open and scholarly debate. College of Design faculty act on cases involving alleged academic dishonesty (cheating), which may result in modification of a course grade. Instructors must report any action to the college office, and the student is informed of the right to ask for a committee hearing.

**Student Scholastic Standing Committee**—The College of Design’s Student Scholastic Standing Committee, composed of administrators and college office staff, interprets and enforces college and University regulations relating to academic affairs. It handles requests for exceptions to registration policies and procedures, transfer of credit policies, and some degree requirements. The committee administers the college probation system; monitors students’ performance; and deals with questions of probation, suspension, and readmission.

Because the committee seeks to maintain the spirit of the College of Design’s regulations as flexibly as possible, it is empowered to make exceptions in cases where regulations work to students’ educational disadvantage. Students are urged to consult their academic advisers concerning almost any kind of problem, and especially those they believe interfere with their ability to attain their academic objectives. Well-established petition and appeal procedures assure full review of student requests.

**Computer Requirement**—Architecture students in studio classes are required to have a laptop computer; interior design students are required to have a laptop computer after passing portfolio review. For the most current information about computer requirements visit the College of Design’s Web site, [www.design.umn.edu](http://www.design.umn.edu) (Students who choose to purchase a computer even if they are not required to do so can also find information and suggestions at the Web site.)
Advising

**Student Services**—This office serves undergraduates from their visits as prospective students through their graduation. It assists students with admission and orientation, registration, course access, degree programs, declaring a major, petitions, graduation clearance, commencement, and other student issues for all majors. Student services also assists with access to the mentor program, internship information, and career opportunities.

Prospective student advising provides general information about degree programs, admission and program requirements, college services, and refers prospective graduate students to the appropriate department and its director of graduate studies. Prospective freshmen should call the Office of Admissions Visitline at 612-625-0000. Prospective transfer students should call the College of Design at 612-624-1717.

Academic advisers are available to students admitted to the college by appointment or during drop-in hours. To make an appointment, call 612-626-3690 (for architecture or environmental design majors) or 612-624-1717 (for clothing design, graphic design, housing studies, interior design, or retail merchandising majors).

**Special Learning Opportunities and Resources**

**College-to-Career Programs**—The College of Design offers a variety of professional development and career networking activities for students to help in the transition from college to career. These events and activities give students an opportunity to make professional connections, explore career and internship options, and see theory in practice. The experiences support classroom learning and encourage students to take a proactive approach to designing their professional futures. The College-to-Career Programs include the mentor program, career tours, and professional portfolio critiques.

**Continuing Education**—The College of Design offers noncredit, continuing education courses for architecture, landscape architecture, and interior design professionals. Courses are designed to meet the content interests of the practitioner and are offered in short, convenient, seminar formats.

**Service-Learning**—Students are encouraged to expand their education and experiences by taking service-learning courses and volunteering in the community. For more information, see [www.cclc.umn.edu](http://www.cclc.umn.edu).

**Undergraduate Research Opportunities Program (UROP)**—The University of Minnesota’s UROP offers financial awards to undergraduates for research, scholarly, or creative projects undertaken in partnership with a faculty member. For more information, see [www.research.umn.edu/undergraduate](http://www.research.umn.edu/undergraduate).

International Programs

The College of Design encourages students to participate in an international study experience as part of their degree program. Students may spend a semester, May or January, or summer session enhancing their cross-cultural skills or acquiring professional experience. With careful planning, students can generally apply credits earned abroad toward their degree program. The college has a list of recommended locations for study abroad.

For more information about international programs, visit the Learning Abroad Center in 230 Heller Hall. Advisers can assist with study and credit options, financial aid, and orientations. For a full listing of study abroad opportunities, see [www.UMabroad.umn.edu](http://www.UMabroad.umn.edu).

**Scholarships**

Students are encouraged to apply for scholarships to further their studies; most awards are made on an annual basis. In addition to financial aid offered by the University, the college administers several scholarship programs of its own. Find out more about available scholarships, application materials, and instructions on the College of Design’s Web site, [www.design.umn.edu](http://www.design.umn.edu).

**The University of Minnesota Undergraduate Scholarship Search**—The scholarship search shows current students information about University scholarships that may be a good fit. The search tool gives a brief summary of targeted scholarships based on the student’s academic record and personal information, and tells them where to go to learn more. Scholarship Search is available at [www.onestop.umn.edu](http://www.onestop.umn.edu).

Career Information

Career services are available for all University of Minnesota majors through campus career centers. They provide comprehensive career development assistance to undergraduate and graduate students through individual appointments, workshops, and courses, as well as through online and print resources. Career centers assist students in four areas: (1) deciding major/career plans, (2) securing internships/experience, (3) effective job and internship searching, and (4) graduate school selection and application. For more information about career services available to students, visit [www.onestop.umn.edu/onestop/Services/Employment.html](http://www.onestop.umn.edu/onestop/Services/Employment.html).

Student Organizations

With more than 300 student organizations at the University of Minnesota, students can get involved and connect with others. For more information, visit the Student Unions & Activities Web site at [www.sua.umn.edu](http://www.sua.umn.edu). Student organizations associated with the College of Design include:

- College of Design Student and Alumni Board (DSAB)
- American Institute of Architecture Students (AIAS)
- American Society of Interior Designers (ASID)
- Design Institute Student Board (DISB)
- DHA Graduate Student Organization (DHAGSO)
- Graphic Design Club
- Greenlight
- Housing Organization for University Students (HOUS)
- Minnesota Chapter of the American Society of Landscape Architecture Students (MASLAS)
- Phi Upsilon Omicron (Phi U)
- Students for New Urbanism
- Student Welcome Network
Directory

Dean's Office
101 Rapson Hall, Minneapolis
32 McNeal Hall, St. Paul
612-626-9068
Dean: Thomas Fisher

Student Services
Architecture and landscape architecture (environmental design) majors
107 Rapson Hall, Minneapolis
612-626-3690

Design, housing, and apparel majors
12 McNeal Hall, St. Paul
612-624-1717

Schools and Departments
School of Architecture
145 Rapson Hall, Minneapolis
612-624-7866
School head: Renee Cheng

Department of Design, Housing, and Apparel
240 McNeal Hall, St. Paul
612-624-9700
Department head: Becky Love Yust

Department of Landscape Architecture
144 Rapson Hall, Minneapolis
612-625-6068
Department head: Lance Neckar
**College of DESIGN**

**Degree Programs and Minors**

**Architecture B.D.A.**

**School of Architecture**
- Required credits to graduate with this degree: 120.
- Required credits within the major: 74.

The bachelor of design in architecture (B.D.A.) is a flexible degree in design thinking through architecture. The program requires an understanding of social, cultural, and physical contexts as a foundation for the examination of the methods, values, precedents, and material reality characteristic of the process of shaping natural and built environments. It includes many architectural electives and priority access to design workshops. The B.D.A. is the best option for those interested in exploring the breadth of the architectural discipline.

All major coursework must be taken A-F.

**Admission Requirements**

Students must complete 30 credits before admission to the program.

A GPA above 2.00 is preferred for the following:
- 2.80 for students already admitted to the degree-granting college.
- 2.80 for students transferring from another University of Minnesota college.
- 2.80 for students transferring from outside the University.

For information about University of Minnesota admission requirements, visit [http://admissions.tc.umn.edu](http://admissions.tc.umn.edu).

**Required Prerequisite Courses for Admission**

Students must also complete first-year writing requirement (with a minimum of 30 credits).

ARCH 1281—Design Fundamentals I (4 cr)
ARCH 1701—The Designed Environment (3 cr)

**Program Requirements**

**B.D.A. Major Core**

ARCH 2301—Introduction to Drawing in Architecture, OH (4 cr)
ARCH 2281—Design Fundamentals II (4 cr)
ARCH 3711W—Environmental Design and the Sociocultural Context, CPE, WI (3 cr)
ARCH 3411—Architectural History to 1750, HP, IP (3 cr)
ARCH 3412—Architectural History Since 1750, HP, IP (3 cr)
ARCH 3611W—Design in the Digital Age, WI (3 cr)
ARCH 4561—Architecture and Ecology (3 cr)
ARCH 4701—Introduction to Urban Form and Issues (3 cr)
LA 3501—Environmental Design and Its Physical and Physical Context, ENVT (3 cr)
ARCH 4211W—Architecture and Interpretation: The Cave and the Light, WI (3 cr)
or ARCH 4423—Gothic Architecture (3 cr)
or ARCH 4424—Renaissance Architecture (3 cr)
or ARCH 4425—Baroque Architecture (3 cr)
or ARCH 4311W—Eighteenth-Century Architecture and the Enlightenment, WI (5 cr)
or ARCH 4331—Modern Architecture (3 cr)
or ARCH 4431—Contemporary Architecture (3 cr)
or ARCH 4455W—Suburbia, WI (3 cr)
or ARCH 4461—Architecture Since World War II: Post-War Experimentation; Aesthetics and Politics of Architecture (3 cr)
or ARCH 4461—North American Indian Architecture (3 cr)

**Calculus**

MATH 1142—Short Calculus, MATH (4 cr)
or MATH 1271—Calculus I, MATH (4 cr)

**Physics**

PHYS 1101W—Introductory College Physics I, PHYS SCI/L, WI (4 cr)
or PHYS 1201W—Introductory Physics for Biology and Pre-medicine I, PHYS SCI/L, WI (5 cr)
or PHYS 1301W—Introductory Physics for Science and Engineering I, PHYS SCI/L, WI (4 cr)

**Architecture Electives**

Take 5 courses, 15 credits minimum, but may not include ARCH 3351 or ARCH 3352.

**Design Workshops**

Take 12 or more credit(s) from the following:
ARCH 3250—Design Workshop (1–6 cr)

**Upper Division Classes Outside the Major**

Take 12 upper division credits outside the major.

**Architecture B.S.**

**School of Architecture**
- Required credits to graduate with this degree: 120.
- Required credits within the major: 89 to 90.

The bachelor of science degree with a major in architecture provides instruction in history, representation, design, theory, and technology, emphasizing the development of architecture as a language of form, space, and order. The program requires an understanding of social, cultural, and physical contexts as a foundation for the examination of the methods, values, precedents, and material reality characteristic of the process of shaping natural and built environments. The major combines core prerequisites with a focused introduction to the discipline of architecture, including required courses in representation, history, theory, technology, and design processes.

**Admission Requirements**

Students apply for admission to the bachelor of science (B.S) at the end of their sophomore year. Admission is competitive and based on portfolio review, GPA, and courses completed. Students must be admitted first to the bachelor of arts with a major in architecture (B.A.) or the bachelor of design in architecture (B.D.A.) to apply for the B.S. The first group of courses (plus freshman comp and all high school prep classes) must be completed with a minimum grade of C- before admission to the B.A. or the B.D.A. The second group of courses need to be completed prior to admission to the B.S.

A GPA above 2.00 is preferred for the following:
- 2.80 for students already admitted to the degree-granting college.
- 2.80 for students transferring from another University of Minnesota college.

For information about University of Minnesota admission requirements, visit [http://admissions.tc.umn.edu](http://admissions.tc.umn.edu).

---

**Note:** Programs listed in this catalog are current as of March 2008.
Requirements for the B.A. or B.D.A.
ARCH 1281—Design Fundamentals I (4 cr)
ARCH 1701—The Designed Environment (3 cr)

Courses to be taken before admission to B.S.
ARCH 2301—Introduction to Drawing in Architecture, OH (4 cr)
ARCH 2281—Design Fundamentals II (4 cr)
ARCH 3711W—Environmental Design and the Sociocultural Context, C/PE, WI (3 cr)
ARCH 3411—Architectural History to 1750, HP, IP (3 cr)
ARCH 3412—Architectural History Since 1750, HP, IP (3 cr)
LA 3501—Environmental Design and Its Biological and Physical Context, ENV T (3 cr)
MATH 1142—Short Calculus, MATH (4 cr)
or MATH 1271—Calculus I, MATH (4 cr)
PHYS 1101W—Introductory College Physics I, PHYS SCI/L, WI (4 cr)
or PHYS 1201W—Introductory Physics for Biology and Pre-medicine I, PHYS SCI/L, WI (5 cr)
or PHYS 1301W—Introductory Physics for Science and Engineering I, PHYS SCI/L, WI (4 cr)

Program Requirements
Students should maintain a portfolio of all freehand drawings, projects, and architecture studio designs. A portfolio is required for application to the B.S. and the accelerated program and the graduate professional degree program.
All courses, including courses in math, physics, and English composition must be taken A-F with grades of C- or better to satisfy degree requirements and to progress in sequence courses.

Accelerated status in architecture is a competitive opportunity for qualified undergraduates to complete the B.S. degree with a major in architecture and the M.Arch. degree in six years rather than seven. See an adviser for more information.

Major coursework
ARCH 3281—Design Fundamentals I (6 cr)
ARCH 3282—Undergraduate Architecture Studio II (6 cr)
ARCH 4283—Undergraduate Architecture Studio III (6 cr)
ARCH 4284—Undergraduate Architecture Studio IV (6 cr)
ARCH 4511—Materials and Methods I (3 cr)
ARCH 4521—Environmental Technology I (3 cr)
ARCH 4571—Architectural Structures I (3 cr)

Courses to be completed any time prior to graduation
ARCH 3611—Design in the Digital Age (3 cr)
ARCH 4561—Architecture and Ecology (3 cr)
ARCH 4701—Introduction to Urban Form and Issues (3 cr)
ARCH 4421W—Architecture and Interpretation: The Cave and the Light, WI (3 cr)
or ARCH 4423—Gothic Architecture (3 cr)
or ARCH 4424—Renaissance Architecture (3 cr)
or ARCH 4425—Baroque Architecture (3 cr)
or ARCH 4431W—Eighteenth-Century Architecture and the Enlightenment, WI (3 cr)
or ARCH 4432—Modern Architecture (3 cr)
or ARCH 4434—Contemporary Architecture (3 cr)
or ARCH 4445W—Suburbia, WI (3 cr)
or ARCH 4446—Architecture Since World War II: Post-War Experimentation; Aesthetics and Politics of Architecture (3 cr)
or ARCH 4461—North American Indian Architecture (3 cr)

Architecture electives
Nine upper division architecture credits not used elsewhere. ARCH 3351 and 3352 do not satisfy this requirement.
Take 9 or more credit(s) from the following:
ARCH 3xxx, 4xxx

Upper division credits outside the major
Take 9 upper division credits outside the major.

Architecture Minor
• Required credits in this minor: 19.
An undergraduate minor in architecture introduces the foundational ideas of the discipline as social, cultural, historic, and environmental constructs.

Minor Requirements
A maximum of 9 transfer credits may be used toward the minor. A maximum of three courses taken for a major may also be used toward the minor. Students must earn a C- or better in all minor coursework.

Required Courses for the Minor
For the undergraduate architecture electives, ARCH 3351 or ARCH 3352 may not be used.
ARCH 1281—Design Fundamentals I (4 cr)
ARCH 4561—Architecture and Ecology (3 cr)
ARCH 1701—The Designed Environment (3 cr)
or ARCH 3711W—Environmental Design and the Sociocultural Context, C/PE, WI (3 cr)
or ARCH 3711V—Honors: Environmental Design and the Sociocultural Context, C/PE, WI, H (3 cr)
or ARCH 3411—Architectural History to 1750, HP, IP (3 cr)
or ARCH 3412—Architectural History Since 1750, HP, IP (3 cr)

Take 2 or more course(s) from the following:
ARCH 3xxx
ARCH 4xxx

Clothing Design B.S.

Design, Housing, and Apparel
• Required credits to graduate with this degree: 120.
• Required credits within the major: 77 to 81.
Clothing design students learn to design, produce, and market clothing products by developing the creative thinking and technical expertise to address contemporary issues while using industry technologies, communicating design ideas, and gaining an understanding of the global apparel industry.

Students entering the program as pre-clothing design majors. To attain full major status, they must complete six required pre-clothing design courses with a grade of at least C-, maintain a 2.50 GPA, and pass a competitive portfolio review. Students entering the program should also have clothing construction/assembly competence and a working knowledge of microcomputers and software.

To complete the major, students must take six sequential clothing design studio courses. They are also encouraged to use the liberal education categories to explore multicultural themes and to strengthen knowledge that supports their major coursework.

Graduates of the program work in various settings, including product development and quality assurance for large retail companies, product design for small and large manufacturers, theater and film design, wearable art, and custom design.
Admission Requirements

Students must complete 6 courses before admission to the program.

Freshmen and transfer students are usually admitted to pre-major status before admission to this major.

A GPA above 2.00 is preferred for the following:
- 2.50 for students already admitted to the degree-granting college.
- 2.50 for students transferring from another University of Minnesota college.
- 2.50 for students transferring from outside the University.

Admission to the pre-major status is done by a competitive holistic review. Students must maintain a GPA of 2.500 during pre-major coursework. In addition, students must receive a minimum grade of C- or better in the required pre-major courses before going through portfolio review (not just a 2.500 GPA). Once students have achieved major status, they must maintain a GPA of 2.00.

Students must pass a portfolio review to be admitted into the degree program.

For information about University of Minnesota admission requirements, visit [http://admissions.tc.umn.edu](http://admissions.tc.umn.edu).

Pre-Clothing Design Courses

Students must demonstrate competence in basic clothing construction skills by successfully completing DHA 1221 and passing the sewing proficiency exam.

**Note:** Students must be admitted to pre-major status to take most of these courses.

- DHA 1101W—Introduction to Design Thinking, OH, WI (4 cr)
- DHA 1311—Foundations: Drawing and Design in Two and Three Dimensions (4 cr)
- DHA 1312—Foundations: Color and Design in Two and Three Dimensions (4 cr)

**Program Requirements**

All coursework in the major must be taken A-F (with the exception of the internship).

Communication Courses

COMM 1101—Introduction to Public Speaking (3 cr)

**or** PSTL 1461—Multicultural Perspectives in Public Speaking, C/PE (3 cr)

WRIT 3562W—Technical and Professional Writing, WI (4 cr)

Major Courses

- DHA 2211—Illustration for Clothing Design (3 cr)
- DHA 2213—Textile Analysis (4 cr)
- DHA 2222—Clothing Design Studio II (4 cr)
- DHA 3217—Fashion Trends and Visual Analysis (3 cr)
- DHA 3223—Clothing Design Studio III (4 cr)
- DHA 3224—Clothing Design Studio IV (4 cr)
- DHA 3225—Clothing Design Research (1 cr)
- DHA 3312—Color and Form in Surface Design (3 cr)
- DHA 4121W—Introduction to Design Thinking, OH, WI (4 cr)
- DHA 4196—Internship in DHA (1 cr)
- DHA 4212W—Dress, Society, and Culture, CD, WI (3 cr)
- DHA 4225—Clothing Design Studio V (4 cr)
- DHA 4226—Clothing Design Studio VI (4 cr)
- DHA 5215—Product Development: Softlines (4 cr)
- DHA 4330—Surface Fabric Design Workshop (4 cr)
- DHA 4340—Woven, Knit, and Non-Woven Fiber Design Workshop (4 cr)
- DHA 3245—Multichannel Retailing (3 cr)
- DHA 4217—International Developments in Textiles and Apparel, IP (3 cr)
- DHA 4216—Retail Promotion and Consumer Decision Making (4 cr)

**Design Minor**

**Design, Housing, and Apparel; Landscape Architecture**

- Required credits in this minor: 18.

The interdisciplinary design minor is appropriate for students who would like a taste of design or those who want a renewed view on design. Traditional design courses and nontraditional views of design provide an integrated perspective. The minor includes core courses that provide a basis for design thinking as well as electives to allow students to explore their area of interest in design.

**Program Requirements**

Students majoring in architecture; design, housing, and apparel; or landscape architecture follow different requirements. See below.

**Foundation Courses**

“Design thinking” is waived for majors in DHA, architecture, or landscape architecture, and replaced by an additional elective course.

- DESI 4001—Design Minor Seminar (3 cr)
- DHA 1101W—Introduction to Design Thinking, OH, WI (4 cr)
- or LA 1101W—Introduction to Design Thinking, OH, WI (4 cr)

**Core Electives**

Take 2 or more course(s) from the following:

- ARCH 3611—Design in the Digital Age (3 cr)
- KIN 3505—Intro to Human-Centered Design (3 cr)
- JOUR 3551—New Media Culture (3 cr)
- ME 2011—Introduction to Engineering (4 cr)
- DESI 3xxx
- DESI 4xxx
- DESI 5xxx

**Electives**

Students choose from different elective groups depending on their major.

**Students are required to complete one of the following course groups.**

**Electives for majors not in College of Design**

For students other than DHA, architecture, or landscape architecture majors.

- Take 2 or more course(s) totaling 6 or more credit(s) from the following:
- AFEE 3112—Technical Drawing and Production Technologies (3 cr)
- ARCH 3411—Architectural History to 1750, HP, IP (3 cr)
- ARCH 3412—Architectural History Since 1750, HP, IP (3 cr)
- ARCH 3611—Design in the Digital Age (3 cr)
- ARCH 3711W—Environmental Design and the Sociocultural Context, C/PE, WI (3 cr)
- ARTH 3505—The Art of Walt Disney in American Culture (4 cr)
- ARTH 5454—Design Reform in the Era of Art Nouveau (3 cr)
- ARTH 5546—American Architecture: 1840 to 1914 (3 cr)
- ARTS 3402—Artists’ Books (4 cr)
- BIE 3111—Exploring Technology Systems (3 cr)
- CSCL 3173W—The Rhetoric of Everyday Life, C/PE, OH, WI (3 cr)
- CSCL 3366W—Landscape, Nature, Society, ENVT, WI (3 cr)
- CSCL 5256W—Suburbia, WI (3 cr)
- DESI 3010—Travels in Typography: Design Institute Seminar (3 cr)
- DESI 3040—Introduction to Furniture Design: Design Institute Case Study Seminar (3 cr)
- DESI 3050—Streetlife Urban Design Seminar (3 cr)
- DESI 3061—(Un)wrapping It Up: New Materials for Design, Design for New Materials (3 cr)
- DESI 3120—Topics in Interdisciplinary Design (3 cr)
- DESI 4002—Design Institute Seminar: Topics (3 cr)
- DESI 4041—Innovating (3 cr)
- DESI 4050—Design Institute Seminar: Macity (3 cr)

**Note:** Programs listed in this catalog are current as of March 2008.
Electives for Arch/LA Arch/DHA students

Only one course may be used in both the major and the minor. Take 3 or more course(s) totaling 9 or more credit(s) from the following:

- AFEE 3112—Technical Drawing and Production Technologies (3 cr)
- ARCH 3412—Architectural History Since 1750, HP, IP (3 cr)
- ARCH 3301—Drawing for Design in Architecture, OH (3 cr)
- LA 3001—Understanding and Creating Landscape Space (3 cr)
- LA 3413—Introduction to Landscape Architectural History, IP (3 cr)
- LA 3501—Environmental Design and Its Biological and Physical Context, ENVT (3 cr)
- ME 2011—Introduction to Engineering (4 cr)
- PA 4200—Urban and Regional Planning (3 cr)
- PHIL 4615—Minds, Bodies, and Machines (3 cr)
- TH 3513—Design and Technical Production I (4 cr)
- TH 3515—Design and Technical Production II (4 cr)
- WRIT 3371—Technology, Self, and Society, C/PE, HP (3 cr)

**Environmental Design B.E.D.**

**Landscape Architecture**

- Required credits to graduate with this degree: 120.
- Required credits within the major: 76 to 79.

Landscape architecture focuses on issues of land use and creating a future that provides a quality lifestyle in a quality environment for an ever-increasing human population. In dealing with these issues, landscape architects integrate the design, planning, and management of the landscape to create outdoor environments that sustain ecological function, fulfill human aspirations for community development, public health, and safety, and are artistically evocative and meaningful.

**Admission Requirements**

A GPA above 2.00 is preferred for the following:

- 2.80 for students already admitted to the degree-granting college.
- 2.80 for students transferring from another University of Minnesota college.
- 2.80 for students transferring from outside the University. For information about University of Minnesota admission requirements, visit [http://admissions.tc.umn.edu](http://admissions.tc.umn.edu).

**Program Requirements**

**Major Courses**

- ARCH 3301—Drawing for Design in Architecture, OH (3 cr)
- ARCH 3711W—Environmental Design and the Sociocultural Context, C/PE, WI (3 cr)
- DHA 3631W—Land Use, Landscapes, and the Law, C/PE, ENVT, WI (3 cr)
- DHA 3371W—Cities, Citizens, and Communities, CD, SSCI, WI (4 cr)
- DHA 3373—Changing Form of the City, HP, IP (3 cr)
- DHA 3511—Principles of Cartography (4 cr)
- DHA 3605W—Geographical Perspectives on Planning, C/PE, IP, WI (4 cr)
- DHA 4393—The Rural Landscape (4 cr)
- HIST 3705—From Printing Press to Internet: Media, Communications, and History (3 cr)
- HIST 4302—History of High-Technology Weapons (3 cr)
- HIST 5411—Art and Science in Early Modern Europe (3 cr)
- HUMF 5001—Foundations of Human Factors/Ergonomics (3 cr)
- JOUR 3006—Visual Communication (3 cr)
- JOUR 3008—Mass Communication Processes and Structure (3 cr)
- JOUR 3745—Mass Media and Popular Culture, CD, SSCI (3 cr)
- JOUR 4272—Interactive Advertising (3 cr)
- JOUR 4551—New Media Culture (3 cr)
- KIN 3505—Intro to Human-Centered Design (3 cr)
- LA 3001—Understanding and Creating Landscape Space (3 cr)
- LA 3413—Introduction to Landscape Architectural History, IP (3 cr)
- LA 3501—Environmental Design and Its Biological and Physical Context, ENVT (3 cr)
- ME 2011—Introduction to Engineering (4 cr)
- PA 4200—Urban and Regional Planning (3 cr)
- PHIL 4615—Minds, Bodies, and Machines (3 cr)
- TH 3513—Design and Technical Production I (4 cr)
- TH 3515—Design and Technical Production II (4 cr)
- WRIT 3371—Technology, Self, and Society, C/PE, HP (3 cr)
Program Sub-Plans
Students are required to complete one of the following sub-plans.

Accelerated Program
This sub-plan is optional and does not fulfill the sub-plan requirement for this program.

The accelerated status option admits a limited number of students annually and allows qualified undergraduates to complete the B.E.D. and M.L.A. in six years rather than seven years.

Applicants for the accelerated status must complete the first three years of the B.E.D. degree requirements before their senior year. Students must complete the first year of the professional degree program in their undergraduate senior year. These courses carry upper division credit and satisfy senior year B.E.D. requirements.

Accelerated status is granted on a competitive basis and does not admit any student to the graduate professional program. Separate requirements, such as letters of recommendation, a letter of interest, and other application documents, must be submitted in January of the year that students are seeking admission to the graduate program. B.E.D. graduates who have completed the accelerated status option and applied to the M.L.A. professional degree program will receive advanced standing in the M.L.A. program upon acceptance by the Department of Landscape Architecture and the Graduate School.

Landscape Design
The design track prepares students for a career in landscape design at the residential and small-scale commercial level.

The landscape design track also requires students to take courses in biological science, plant materials, landscape management, and small business management.

Required Courses for the Sub-Plan
Math and Science Courses
BIOI 1009—General Biology, BIOL SC/L (4 cr)
or BIOI 1009H—Honors General Biology, BIOL SCI/L, H (4 cr)
CHEM 1011—Introductory Chemistry: Lecture and Laboratory, PHYS SCI/L (4 cr)
or CHEM 1031H—Honors Chemistry I, ENVMT, PHYS SCI/L, H (4 cr)
MATH 1031—College Algebra and Probability, ENVMT, MATH (4 cr)
or MATH 1142—Short Calculus, MATH (4 cr)

Landscape Design Core
APEC 1101—Principles of Microeconomics, SSCI (3 cr)
HORT 1001—Plant Propagation, BIOL SCI/L (4 cr)
HORT 1015—Woody and Herbaceous Plants (4 cr)
HORT 3005—Environmental Effects on Horticultural Crops (4 cr)
HORT 4021—Landscape Design and Implementation I (4 cr)
HORT 4061W—Turfgrass Management, WI (3 cr)
HORT 4096—Professional Experience Program: Internship (1 cr)
HORT 5021—Landscape Design and Implementation II (4 cr)
SOIL 2125—Basic Soil Science, ENVMT (4 cr)

Take 2 or more course(s) from the following:

MGMT 3001—Fundamentals of Management (3 cr)
MGMT 3010—Introduction to Entrepreneurship (4 cr)
ACCT 2050—Introduction to Financial Reporting (4 cr)

or APEC 1251—Principles of Accounting (3 cr)
OMS 2550—Business Statistics: Data Sources, Presentation, and Analysis (4 cr)
or STAT 3011—Introduction to Statistical Analysis, MATH (4 cr)

Landscape Planning
The landscape planning track prepares students for work in the field of urban and regional planning.

The landscape planning track requires additional courses in urban geography, urban and regional planning, natural resource planning and management, as well as biological and physical sciences. Students in this track should select GEOG 1502 to complete the mathematical thinking requirement.

Required Courses for the Sub-Plan
Landscape Planning Core
ARCH 4701—Introduction to Urban Form and Issues (3 cr)
FR 3131—Geographical Information Systems (GIS) for Natural Resources (4 cr)
GEOG 3371W—Cities, Citizens, and Communities, CD, SSCI, WI (4 cr)
GEOG 3605W—Geographical Perspectives on Planning, C/PE, IP, WI (4 cr)
LA 1202—Making the Mississippi, C/PE (3 cr)
PA 4200—Urban and Regional Planning (3 cr)
ARCH 4445W—Suburbia, WI (3 cr)
or ARCH 4671—Historic Preservation (3 cr)
or ARCH 5461—North American Indian Architecture (3 cr)
or CSPH 5521—Therapeutic Landscapes (3 cr)
or DESI 3050—Streetlife Urban Design Seminar (3 cr)
or EEB 3361—Visions of Nature: The Natural World and Political Thought, C/PE, ENVMT (4 cr)
or ESPM 3245—Sustainable Land Use Planning and Policy, ENVMT (3 cr)
or FR 4501—Urban Forest Management: Managing Greenspaces for People, C/PE (3 cr)
or GEOG 3361W—Land Use, Landscapes, and the Law, C/PE, ENVMT, WI (3 cr)
or GEOG 3373—Changing Form of the City, HP, IP (3 cr)
or GEOG 3376—Political Ecology of North America, C/PE, ENVMT (3 cr)
or GEOG 4393—The Rural Landscape (4 cr)
or GEOG 5361—Geography and Real Estate (4 cr)
or GEOG 5372W—American Cities II: Land Use, Transportation, and the Urban Economy, WI (4 cr)
or LA 5712—Infrastructure, Natural Systems and the Space of Inhabited Landscapes (3 cr)
or PA 5013—Law and Urban Land Use (1.5 cr)
or PA 5211—Land Use Planning (3 cr)
or PA 5221—Private Sector Development (3 cr)
or PA 5251—Strategic Planning and Management (3 cr)
or PA 5253—Designing Planning and Participation Processes (3 cr)
or RRM 4232W—Managing Recreational Lands, ENVMT, WI (4 cr)
or URBS 3001 [Approval Pending]
or URBS 3301W—American Cities As Settings for Cultural Diversity, CD, WI (3 cr)

Additional Science Courses
EEB 3001—Ecology and Society, ENVMT (3 cr)
Take 2 or more course(s) from the following:

BBE 3023—Engineering Principles of Soil-Water-Plant Processes (3 cr)
BBE 5513—Watershed Engineering (3 cr)
BIOL 3407—Ecology, ENVMT (3 cr)
BIOL 3409—Evolution (3 cr)
CE 3501—Environmental Engineering, C/PE, ENVMT (3 cr)
EEB 3603—Science, Protection, and Management of Aquatic Environments (3 cr)
EEOB 4014—Ecology of Vegetation (3 cr)
EEOB 4016W—Ecological Biogeography, WI (3 cr)
EEOB 4609W—Ecosystem Ecology, WI (3 cr)
ESPM 3101—Conservation of Plant Biodiversity, ENVMT (3 cr)
ESPM 3111—Hydrology and Water Quality Field Methods (3 cr)
ESPM 3221—Soil Conservation and Land-Use Management (3 cr)
ESPM 3575—Wetlands Conservation (3 cr)
ESPM 4061W—Water Quality and Natural Resources, ENVMT, WI (3 cr)
FR 3104—Forest Ecology (4 cr)

Note: Programs listed in this catalog are current as of March 2008.
Environmental Design Minor

• Required credits in this minor: 21.

See the major description.

Program Requirements

A maximum of 9 transfer credits may be used for the minor and a maximum of three courses taken for a major degree may also be used toward the minor. A minimum grade of C- is required in all minor coursework.

LA 3001—Understanding and Creating Landscape Space (3 cr)
LA 3413—Introduction to Landscape Architectural History, IP (3 cr)
ARCH 1701—The Designed Environment (3 cr)
or
LA 1401—The Designed Environment (3 cr)

Electives

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

ARCH 3301—Drawing in Design in Architecture, OH (3 cr)
ARCH 3711W—Environmental Design and the Sociocultural Context, C/PE, WI (3 cr)
DHA 1101W—Introduction to Design Thinking, OH, WI (4 cr)
EED 3001—Ecology and Society, ENVT (3 cr)
LA 1101W—Introduction to Design Thinking, OH, WI (4 cr)
LA 1201—Learning from the Landscape, CD (3 cr)
LA 1202—Making the Mississippi, C/PE (3 cr)
LA 1301—Introduction to Landscape Architecture Drawing, OH (3 cr)
LA 3002—Informants of Creating Landscape Space (3 cr)
LA 3204—Landscape Ecology (3 cr)
LA 3501—Environmental Design and Its Biological and Physical Context, ENVT (3 cr)
LA 3571—Landscape Construction: Site Systems and Engineering (3 cr)
LA 5712—Infrastructure, Natural Systems and the Space of Inhabited Landscapes (3 cr)

Required credits within the major: 86 to 91.

Required credits to graduate with this degree: 120.

Required credits within the major: 86 to 91.

The graphic design program educates students in design methods, design theory, creative problem solving, and visual and verbal literacy. An emphasis is placed on visual components; how humans communicate, perceive, interpret, and understand visual information. The program fosters flexibility, which enables graduates to adapt to social, cultural, and technological change in graphic design. The program’s foundation is broadly based. Students begin with courses in fundamental aspects of visual studies. Upper division courses prepare them for graphic design positions in print and electronic media. An internship of 1–4 credits is required.

Admission Requirements

Students must complete 4 courses before admission to the program.

Freshmen and transfer students are usually admitted to pre-major status before admission to this major.

A GPA above 2.00 is preferred for the following:

• 2.50 for students already admitted to the degree-granting college.

• 2.50 for students transferring from another University of Minnesota college.

• 2.50 for students transferring from outside the University.

Admission to pre-major status is decided by a competitive holistic review. Students must maintain a GPA of 2.50 during pre-major coursework. In addition, students must receive a minimum grade of C- or better in the required pre-major courses before going through portfolio review (not just a 2.500 GPA). Once students have achieved major status, they must maintain a GPA of 2.00.

Students must be admitted to the pre-major status program to take most of the pre-graphic design coursework.

For information about University of Minnesota admission requirements, visit [http://admissions.tc.umn.edu](http://admissions.tc.umn.edu).

Pre-Graphic Design Courses

DHA 1101W—Introduction to Design Thinking, OH, WI (4 cr)
DHA 1311—Foundations: Drawing and Design in Two and Three Dimensions (4 cr)
DHA 1312—Foundations: Color and Design in Two and Three Dimensions (4 cr)
DHA 1315—Foundations: The Graphic Studio (4 cr)

Program Requirements

All coursework must be taken A-F (with the exception of the internship).

Communication Courses

COMM 1101—Introduction to Public Speaking (3 cr)
or
PSTL 1461—Oral Communication in the Public Sphere, C/PE (3 cr)
WRIT 3562W—Technical and Professional Writing, WI (4 cr)

Art History Courses

ARCH 3411—Architectural History to 1750, HP, IP (3 cr)
or
ARCH 3412—Architectural History Since 1750, HP, IP (3 cr)
or
ARTH 1xxx
or
ARTH 2xxx
or
ARTH 3xxx
or
ARTH 4xxx
or
ARTH 5xxx
or
DHA 4121—History of Costume (4 cr)
or
DHA 4161—History of Interiors and Furnishings: Ancient to 1750, IP (4 cr)
Business, Economics, or Marketing Courses

Students must select one course in either business, economics, or marketing.

ACCT 1xxx
or
ACCT 2xxx
or
ACCT 3xxx
or
ACCT 4xxx
or
ACCT 5xxx
or
APEC 1101—Principles of Microeconomics, SSCI (3 cr)
or
APEC 1102—Principles of Macroeconomics, IP, SSCI (3 cr)
or
APEC 1251—Principles of Accounting (3 cr)
or
ECON 1xxx
or
ECON 2xxx
or
ECON 3xxx
or
ECON 4xxx
or
ECON 5xxx
or
PSTL 1511—Introduction to Business and Society, SSCI (4 cr)
or
PSTL 1513—Small Business Fundamentals With E-Business Applications (3 cr)
or
MGMT 3xxx
or
MGMT 3xxx

History Courses

AFRO 3204—History of South Africa to 1910, HP, IP (3 cr)
or
AFRO 3205—History of South Africa from 1910, HP (3 cr)
or
AFRO 3431—Early Africa and Its Global Connections, HP, IP (4 cr)
or
AFRO 3432—Modern Africa in a Changing World, HP, IP (4 cr)
or
AFRO 3864—African American History: 1619 to 1865, CD, HP (4 cr)
or
AFRO 3865—African American History: 1865 to the Present, CD, HP (4 cr)
or
AMIN 3871—American Indian History: Pre-Contact to 1830, CD, HP (3 cr)
or
AMIN 3872—American Indian History: 1830 to the Present, CD, HP (3 cr)
or
CNET 1034—Introduction to Greek and Roman Archaeology, HP (4 cr)
or
PSTL 1231—Perspectives in American History, HP (4 cr)
or
PSTL 1251—World History: Since 1500, HP, IP (4 cr)
or
HIST 1011V—Honors: Global Societies Before 1500, HP, IP, WI, H (4 cr)
or
HIST 1011W—Origins: Global Societies Before 1500, HP, IP (3 cr)
or
HIST 1012V—Honors: The Age of Global Contact, HP, IP, WI, H (4 cr)
or
HIST 1012W—The Age of Global Contact, HP, IP, WI (4 cr)
or
HIST 1015W—Globalization: Issues and Challenges, HP, IP, WI (4 cr)
or
HIST 1017—Origins: Global Societies Before 1500, HP, IP (3 cr)
or
HIST 1018—The Age of Global Contact, HP, IP (3 cr)
or
HIST 1019—Globalization: Issues and Challenges, HP, IP (3 cr)
or
HIST 1026—Western Civilization from Its Origins to ca 1500, HP, IP (3 cr)
or
HIST 1027—Western Civ From 1500 to Present, HP, IP (3 cr)
or
HIST 1031V—Honors: Survey of Western Civilization From Its Origins to ca 1500, HP, IP, WI, H (4 cr)
or
HIST 1031W—Western Civilization, From Its Origins to ca 1500, HP, IP, WI, H (4 cr)
or
HIST 1032V—Honors: Western Civilization, From 1500 to Present, HP, IP, WI, H (4 cr)
or
HIST 1032W—Western Civilization, From 1500 to Present, HP, IP, WI (4 cr)
or
HIST 1301V—Honors: U.S. History to 1877, CD, HP, WI, H (4 cr)
or
HIST 1301W—U.S. History to 1877, CD, HP, WI (4 cr)
or
HIST 1302V—Honors: U.S. History, From 1865 to Present, CD, HP, WI, H (4 cr)
or
HIST 1302W—U.S. History, From 1865 to Present, CD, HP, WI (4 cr)
or
HIST 1307—American History to 1877, CD, HP (3 cr)
or
HIST 1308—U.S. History: From 1865 to Present, CD, HP (3 cr)
or
HIST 3151W—British History to the 17th Century, C/PE, HP, WI (4 cr)
or
HIST 3152—British History From the Seventeenth Century, C/PE, HP (4 cr)
or
HIST 3211—History of Sexuality in Europe (3 cr)
or
HIST 3347—Women in Early and Victorian America: 1600-1890, CD, HP (3 cr)
or
HIST 3348—Women in Modern America, CD, HP (3–4 cr)
or
HIST 3401W—Early Latin America to 1825, HP, IP, WI (4 cr)
or
HIST 3402W—Modern Latin America 1825 to Present, HP, IP, WI (4 cr)
or
HIST 3431—Early Africa and Its Global Connections, HP (4 cr)
or
HIST 3432—Modern Africa in a Changing World, HP, IP (4 cr)
or
HIST 3461—Introduction to East Asia I: The Imperial Age, HP, IP (3–4 cr)
or
HIST 3462—Introduction to East Asia II: 1600-2000, HP, IP (3–4 cr)
or
HIST 3467W—State and Revolution in Modern China, HP, WI (3 cr)
or
HIST 3468—Social Change in Modern China, HP (3 cr)
or
HIST 3471—Modern Japan, Meiji to the Present (1868-2000), HP, IP (3 cr)
or
HIST 3472—Early Modern Japan (3 cr)
or
HIST 3608W—History of the Catholic Church in the Middle Ages, HP, WI (3 cr)
or
HIST 3611—Medieval Cities of Europe: 500-1500, HP, IP (3 cr)
or
HIST 3615W—Women in European History: 1500 to the Present, HP, WI (3 cr)
or
HIST 3616—France in the Middle Ages, HP, IP (3 cr)
or
HIST 3621—Renaissance Italy: 1200-1550, C/PE, HP (3 cr)
or
HIST 3626—France From the Late 16th Century Through Napoleon: 1594-1815 (3 cr)
or
HIST 3703W—European Cities: 1300-1800, HP, IP, WI (3 cr)
or
HIST 3704W—Daily Life in Europe: 1300-1800, HP, IP, WI (3 cr)
or
HIST 3721—20th-Century Europe From the Turn of the Century to the End of the Cold War: 1945-1991, HP, IP (3 cr)
or
HIST 3722—20th-Century Europe From the End of World War II to the End of the Cold War: 1945-1991, HP, IP (3 cr)
or
HIST 3801—The People of Early America: 16th to 18th Centuries, CD, HP (3 cr)
or
HIST 3871—American Indian History; Pre-Contact to 1830, CD, HP (3 cr)
or
HIST 3872—American Indian History: 1830 to the Present, CD, HP (3 cr)
or
HSCI 1714—Technology and Civilization: Stone Tools to Steam Engines, HP, IP (4 cr)
or
HSCI 1715—Technology and Civilization: Waterwheels to the Web, HP, IP (4 cr)
or
HSCI 1814—Revolutions in Science: The Babylonians to Newton, HP, IP (4 cr)
or
HSCI 1815—Revolutions in Science: Lavoisier, Darwin, and Einstein, HP, IP (4 cr)
or
HSCI 3331—Technology and American Culture, HP (3 cr)
or
HSCI 3332—Science and American Culture, CD, HP (3 cr)
or
HSCI 3714—Technology and Civilization: Waterwheels to Steam Engines, HP, IP (4 cr)
or
HSCI 3715—Technology and Civilization: Waterwheels to the Web, HP, IP (4 cr)
or
HSCI 3814—Revolutions in Science: The Babylonians to Newton, HP, IP (4 cr)
or
HSCI 3815—Revolutions in Science: Lavoisier, Darwin, and Einstein, HP, IP (4 cr)

Photography Courses

ARTS 1701—Photography, OH (4 cr)
or
DHA 4351—Design Process; Photography (3 cr)
or
PSTL 1485—Creativity: Photography (4 cr)

Major Courses

DHA 2311—Drawing and Illustration (3 cr)
or
DHA 2334—Computer Applications I: Digital Composition for Design (3 cr)
or
DHA 2345—Typographic Design (3 cr)
or
DHA 2351—Graphic Design I: Text and Image (3 cr)
or
DHA 2385W—Design and Factors of Human Perception, WI (4 cr)
or
DHA 3312—Color and Form in Surface Design (3 cr)
or
DHA 3352—Graphic Design II: Identity and Symbols (3 cr)
or
DHA 3353—Graphic Design III: Packaging and Display (3 cr)
or
DHA 4131W—History of Visual Communication, HP, WI (4 cr)
or
DHA 4196—Internship in DHA (1–4 cr)
or
DHA 4334—Computer Applications II: Design for the Digital Environment (3 cr)
or
DHA 4345—Advanced Typographic Design (4 cr)
or
DHA 4355—Graphic Design Portfolio (3 cr)
or
DHA 4354—Graphic Design IV: Integrative Campaign (4 cr)
or
DHA 4365W—Graphic Design Senior Seminar, C/PE, WI (3 cr)

Emphasizing Materials Courses

Students must take one course emphasizing materials (DHA 4351 may be used if not taken for photography requirement). See an adviser for course options other than those in the list below.

DHA 4330—Surface Fabric Design Workshop (4 cr)
or
DHA 4340—Woven, Knit, and Non-Woven Fiber Design Workshop (4 cr)
or
DHA 4351—Design Process: Photography (3 cr)
or
DHA 4352—Design Process: Bookmaking (3 cr)

Note: Programs listed in this catalog are current as of March 2008.
Electives
See an adviser for course options other than those listed below.

Take 2 or more course(s) from the following:
- DHA 5341—Interactive Design I (3 cr)
- DHA 5342—Interactive Design 2: Interface Design (3 cr)
- DHA 5382—Digital Sound and Video (3 cr)
- DHA 5383—Digital Illustration and Animation (4 cr)
- DHA 5386—Fundamentals of Game Design (3 cr)

Housing Studies B.S.

Design, Housing, and Apparel

• Required credits to graduate with this degree: 120.
• Required credits within the major: 71 to 74.
• This program requires summer terms.

The housing studies program allows students to study shelter in its multiple dimensions. Coursework in the program includes social and behavioral sciences, economics, public policy, planning, and technology.

After first acquiring a broad background of housing courses, students select one of four areas of concentration: community development and policy, housing technology, management and finance, or selected populations.

The housing studies program provides the academic background and professional preparation needed for graduate studies leading to college teaching, research, or planning/administrative positions.

Depending upon prior coursework, the housing studies major requirements can often be completed in two years. Students are encouraged to meet with an adviser to discuss their specific situations.

Admission Requirements

For information about University of Minnesota admission requirements, visit http://admissions.tc.umn.edu.

Program Requirements

All coursework in the major must be taken A-F (with the exception of the internship (DHA 4196).

Communication Courses

- COMM 1101—Introduction to Public Speaking (3 cr)
- PSTL 1461—Multicultural Perspectives in Public Speaking, C/PE (3 cr)
- WRIT 3562W—Technical and Professional Writing, WI (4 cr)

Required Major Coursework

An internship of at least 300 hours in a situation related to the student’s area of specialization is required. Students must complete at least half of the required core program courses before enrolling in the internship (DHA 4196).

- BBE 3411—Introduction to Residential Construction (2 cr)
- DHA 1101W—Introduction to Design Thinking, OH, WI (4 cr)
- DHA 2401—Introduction to Housing (3 cr)
- DHA 2402—Residential Technology (3 cr)
- DHA 2463—Housing and Community Development, C/PE (3 cr)
- DHA 4196—Internship in Housing (2 cr)
- DHA 4461—Housing Development and Management (3 cr)
- DHA 5463—Housing Policy (3 cr)
- DHA 5467W—Housing and the Social Environment, WI (4 cr)
- DHA 4465—Housing in a Global Perspective, IP (3 cr)
- DHA 5481—Supporting Independence in Housing and Community (3 cr)
- DHA 5484—Rural Housing Issues (3 cr)
- DHA 5489—Supporting Independence in Housing and Community (3 cr)
- DHA 5482—Our Home, Our Environment (3 cr)
- APEC 1101—Principles of Microeconomics, SSCI (3 cr)
- APEC 1102—Principles of Macroeconomics, IP, SSII (3 cr)
- ECON 1101—Principles of Microeconomics, IP, SSCI (4 cr)
- ECON 1102—Principles of Macroeconomics, IP, SSCI (4 cr)
- ECON 3701—Money and Banking (3 cr)
- ECON 3801—Elements of Public Economics (3 cr)
- FSOS 3101—Personal and Family Finances (3 cr)
- FSOS 3102—Family Systems and Diversity, CD, SSCI (3 cr)
- FSOS 4106—Family Resource Management (3 cr)
- GEOG 3371W—Cities, Citizens, and Communities, CD, SSCI, WI (4 cr)
- GEOG 3372W—American Cities II: Land Use, Transportation, and the Urban Economy, WI (4 cr)
- PA 4200—Urban and Regional Planning (3 cr)
- EPSY 3246—Basic and Applied Statistics, MATH (3 cr)
- PSTL 1004—Statistics, MATH (4 cr)
- OMS 2550—Business Statistics: Data Sources, Presentation, and Analysis (4 cr)
- STAT 1001—Introduction to the Ideas of Statistics, MATH (4 cr)
- STAT 3011—Introduction to Statistical Analysis, MATH (4 cr)

Program Sub-Plans

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

Community Development and Policy

Courses in planning, geography, political science, and urban studies prepare students to work with housing and redevelopment authorities, city or regional planning departments, and nonprofit organizations in policy making, planning, and housing development.

DHA 5469 and 17 credits from a variety of courses are required.

Required Courses for the Sub-Plan

Courses listed below are suggested, but not inclusive. Students should consult with an adviser for other appropriate courses. Concentration courses must be primarily upper division and must be taken A-F. A minimum grade of C- is required. Note: a course may be used only once to satisfy program requirements.

Completion of one of the following minors may be used toward the credit requirements in this concentration: environmental design, geography, social justice, urban studies.

DHA 5469—Understanding Housing: Assessment and Analysis (3 cr)

Take 17 or more credit(s) from the following:

- APEC 5581—Human Capital and Household Economics (3 cr)
- ARCH 5645—Real Estate Development in Architecture (3 cr)
- DHA 3482—Our Home, Our Environment (3 cr)
- DHA 4465—Housing in a Global Perspective, IP (3 cr)
- DHA 5481—Supporting Independence in Housing and Community (3 cr)
- DHA 5484—Rural Housing Issues (3 cr)
- FSOS 3102—Family Systems and Diversity, CD, SSCI (3 cr)
- GEOG 3371W—Cities, Citizens, and Communities, CD, SSCI, WI (4 cr)
- GEOG 3373—Changing Form of the City, HP, IP (3 cr)
- GEOG 3605W—Geographical Perspectives on Planning, C/PE, IP, WI (4 cr)
- GEOG 5361—Geography and Real Estate (4 cr)
- PA 4200—Urban and Regional Planning (3 cr)
- PA 5002—Introduction to Policy Analysis (1.5 cr)
- PA 5004—Introduction to Planning (3 cr)
- PA 5013—Law and Urban Land Use (1.5 cr)
- PA 5212—Managing Urban Growth and Change (3 cr)
- POL 1001—American Democracy in a Changing World, C/PE, SSCI (4 cr)
- SOC 1001—Introduction to Sociology, CD, SSCI (4 cr)
- SOC 3201—Inequality: Introduction to Stratification (3 cr)
- SOC 3211W—American Race Relations, CD, SSCI, WI (3 cr)
- SOC 3451W—Cities and Social Change, SSCI, WI (3 cr)
- URBS 1001W—Introduction to Urban Studies: The Complexity of Metropolitan Life, C/PE, WI (3 cr)
- URBS 3301W—American Cities As Settings for Cultural Diversity, CD, WI (3 cr)
- URBS 3751—Understanding the Urban Environment, ENV (3 cr)
- URBS 5101—The City and the Metropolis: An Exploration (3 cr)
Housing Technology
Courses in design, technology, architecture, and environmental studies prepare students to work in housing construction, renovation, and development firms; energy and housing inspection programs; and historic preservation organizations.

Students must complete at least 20 credits for the concentration.

Required Courses for the Sub-Plan
Courses listed below are suggested, but not inclusive. Students should consult with an adviser for other appropriate courses. Concentration courses must be primarily upper division and must be taken A-F. A minimum grade of C- is required. Note: a course may be used only once to satisfy program requirements.

Complete of one of the following minors may be used toward the credit requirements in this concentration: architecture, construction management, sustainability studies.

Take 20 or more credit(s) from the following:

**Architectural History**
- ARCH 3412—Architectural History Since 1750, HP, IP (3 cr)
- ARCH 4671—Historic Preservation (3 cr)
- ARCH 4672—Historic Building Conservation (3 cr)
- ARCH 5673—Historic Building Research and Documentation (3 cr)
- ARTH 5546—American Architecture: 1840 to 1914 (3 cr)
- BBE 4413—Systems Approach to Residential Construction (3 cr)
- BBE 4414—Advanced Residential Building Science, WI (3 cr)
- BBE 4415—Advanced Residential Building Science Lab (1 cr)
- BBE 4416—Building Testing and Diagnostics (2 cr)

**CE 4101W**—Project Management, WI (3 cr)

**DHA 1601**—Interior Design Studio I (4 cr)

**DHA 1602**—Interior Design Studio II (4 cr)

**DHA 2612**—Interior Materials and Specifications (4 cr)

**DHA 2613**—Lighting Design and Life Safety Issues (4 cr)

**DHA 2621**—Computer Aided Design: Interior Design (4 cr)

**DHA 3482**—Our Home, Our Environment (3 cr)

**DHA 4465**—Housing in a Global Perspective, IP (3 cr)

**DHA 5469**—Understanding Housing: Assessment and Analysis (3 cr)

**DHA 5481**—Supporting Independence in Housing and Community (3 cr)

**DHA 5484**—Rural Housing Issues (3 cr)

**PUBH 3001**—Personal and Community Health (2 cr)

**PUBH 3004**—Basic Concepts in Personal and Community Health (4 cr)

**PUBH 3102**—Issues in Environmental and Occupational Health, ENVH (3 cr)

**WRIT 4573W**—Writing Proposals and Grant Management, WI (3 cr)

Management/Finance
Courses in economics and business prepare students to work in public and private housing management, state finance agencies, commercial banks, and mortgage and title companies.

Students must complete at least 20 credits for the concentration.

Required Courses for the Sub-Plan
Courses listed below are suggested, but not inclusive. Students should consult with an adviser for other appropriate courses. Concentration courses must be primarily upper division and must be taken A-F. A minimum grade of C- is required. Note: a course may be used only once to satisfy program requirements.

Complete of one of the following minors may be used toward the credit requirements in this concentration: applied economics, economics, entrepreneurial management, management.

Take 20 or more credit(s) from the following:

**APEC 3001**—Applied Microeconomics: Consumers, Producers, and Markets, SSCI (4 cr)

**APEC 3002**—Applied Microeconomics: Managerial Economics (4 cr)

**APEC 3006**—Applied Macroeconomics: Government and the Economy (3 cr)

**APEC 5341**—Public Finance (3 cr)

**APEC 5581**—Human Capital and Household Economics (3 cr)

**BLAW 3058**—The Law of Contracts and Agency (4 cr)

**DHA 3482**—Our Home, Our Environment (3 cr)

**DHA 4465**—Housing in a Global Perspective, IP (3 cr)

**DHA 5469**—Understanding Housing: Assessment and Analysis (3 cr)

**DHA 5481**—Supporting Independence in Housing and Community (3 cr)

**DHA 5484**—Rural Housing Issues (3 cr)

**ECON 3701**—Money and Banking (3 cr)

**ECON 3801**—Elements of Public Economics (3 cr)

**FINA 3001**—Finance Fundamentals (3 cr)

**FINA 4241**—Corporate Financing Decisions (4 cr)

**GEOG 5361**—Geography and Real Estate (4 cr)

**MGMT 3001**—Fundamentals of Management (3 cr)

**MGMT 4002**—Managerial Psychology (4 cr)

**MKTG 3001**—Principles of Marketing (3 cr)

**MKTG 3010**—Marketing Research (4 cr)

**MKTG 4040**—Buyer Behavior (4 cr)

**WRIT 4165**—Managerial and Organizational Communication, Planning, and Change (3 cr)

**WRIT 4573W**—Writing Proposals and Grant Management, WI (3 cr)

**APEC 1101**—Principles of Microeconomics, SSCI (3 cr)

**APEC 1101**—Principles of Microeconomics, IP, SSCI (4 cr)

**APEC 1102**—Principles of Macroeconomics, IP, SSCI (3 cr)

**APEC 1102**—Principles of Macroeconomics, IP, SSCI (4 cr)

**APEC 1251**—Principles of Accounting (3 cr)

**ACCT 2050**—Introduction to Financial Reporting (4 cr)

Selected Populations
An area of concentration in selected populations may be fulfilled in two ways.

Option One and Option Two
Students are required to complete one of the following course groups.

Option One
Complete an appropriate minor along with additional credits in supporting courses. A concentration can be done in such minors as African-American and African studies; American Indian studies; Chicano studies; family social science; gay, lesbian, bisexual, and transgendered minor; gender, women, and sexuality studies; global studies; Latin American studies; social justice; or youth studies. For admission procedures and minor requirements, contact the department offering the minor.

Minor coursework to total 20 credits

Option Two
Concentrate on one or more special populations for which no specific undergraduate minor is offered. Choose courses from selected populations: older persons, low income, communities of color, and households with children.

Selected Populations: older persons
Take 20 or more credit(s) from the following:

**DHA 5481**—Supporting Independence in Housing and Community (3 cr)

**DHA 5484**—Rural Housing Issues (3 cr)

**FSOS 4154W**—Families and Aging, WI (3 cr)

**GERO 5105**—Multidisciplinary Perspectives on Aging (3 cr)

**KIN 5385**—Exercise for Disease Prevention and Management (3 cr)

**PA 5412**—Aging and Disability Policy (3 cr)

**PSY 5138**—Psychology of Aging (3 cr)

Note: Programs listed in this catalog are current as of March 2008.
Selected Populations: low income, communities of color, and households with children
Take 20 or more credits from the following:
CPSY 3301—Introductory Child Psychology for Social Sciences (4 cr)
DHA 5469—Understanding Housing: Assessment and Analysis (3 cr)
DHA 5484—Rural Housing Issues (3 cr)
DHA 5481—Supporting Independence in Housing and Community (3 cr)
DHA 4461—Housing Development and Management (3 cr)
DHA 2401—Introduction to Housing (3 cr)
DHA 2463—Housing and Community Development, C/PE (3 cr)
DHA 2467W—Housing and the Social Environment, WI (4 cr)
DHA 3482—Our Home, Our Environment (3 cr)
DHA 4463—Housing Policy (3 cr)
DHA 1101W—Introduction to Design Thinking, OH, WI (4 cr)
DHA 5484—Rural Housing Issues (3 cr)
DHA 5469—Understanding Housing: Assessment and Analysis (3 cr)
CPSY 3301—Introductory Child Psychology for Social Sciences (4 cr)

Program Requirements
DHA 2401—Introduction to Housing (3 cr)
DHA 2463—Housing and Community Development, C/PE (3 cr)
DHA 4461—Housing Development and Management (3 cr)
DHA 4463—Housing in a Global Perspective, IP (3 cr)
DHA 3482—Our Home, Our Environment (3 cr)
DHA 5463—Housing Policy (3 cr)
DHA 5467W—Housing and the Social Environment, WI (4 cr)
DHA 5469—Understanding Housing: Assessment and Analysis (3 cr)
DHA 5481—Supporting Independence in Housing and Community (3 cr)
DHA 5484—Rural Housing Issues (3 cr)

Housing Studies Minor
• Required credits in this minor: 15.

See major description for more information.

Interior Design B.S.
Design, Housing, and Apparel
• Required credits to graduate with this degree: 125.
• Required credits within the major: 95.
• This program requires summer terms.

Interior design is a professional program accredited by the Council for Interior Design Accreditation (CIDA). Its focus is on providing for human welfare by improving the quality of life and protecting human health and safety through design of the interior environment. Students study fundamentals, theory, process, communication, research, and technology to identify and solve problems related to people and their use of interior space. They analyze human behavior to determine clients’ functional, aesthetic, social, and psychological needs, which prepares them to solve interior design problems. They design various types of interiors such as hospitals, offices, schools, residences, restaurants, hotels, and entertainment facilities. To do this, students acquire
• a foundation in basic design;
• understanding of the relationship between individuals and their environments;
• understanding of the contextual relationship of the site, the building, and its systems to the interior;
• knowledge of regulations that govern their practice of interior design;
• the ability to research users’ needs and apply their findings to problem identification and solution;
• understanding of historical precedent and contemporary design theories;
• technical knowledge and communication skills;
• understanding of business issues and professional ethics; and
• a sense of responsibility to society, especially in the use of resources.

Admission Requirements
Students must complete 7 courses before admission to the program.
Freshmen and transfer students are usually admitted to pre-major status before admission to this major.
A GPA above 2.00 is preferred for the following:
• 2.50 for students already admitted to the degree-granting college.
• 2.50 for students transferring from another University of Minnesota college.
• 2.50 for students transferring from outside the University.

Admission to the pre-major status is done by a competitive holistic review. Students must maintain a GPA of 2.50 during pre-major coursework. In addition, students must receive a minimum grade of C- or better in the required pre-major courses before going through portfolio review (not just a 2.50 GPA). Once students have achieved major status, they must maintain a GPA of 2.00.

For information about University of Minnesota admission requirements, visit http://admissions.tc.umn.edu

Pre-Interior Design Courses
Students must complete freshman composition and at least one additional liberal education course in addition to the required coursework below to be admitted to major status in the interior design program.

NOTE: Students must be admitted to a pre-major status to take most of these courses.
DHA 1101W—Introduction to Design Thinking, OH, WI (4 cr)
DHA 1311—Foundations: Drawing and Design in Two and Three Dimensions (4 cr)
College of Design

Program Requirements
Students must complete a 400-hour internship (DHA 4196) after completing DHA 3606 and DHA 3614. All coursework in the major must be taken A-F (with the exception of the internship).

Architectural History Courses
ARCH 3411—Architectural History to 1750, HP, IP (3 cr)
or ARCH 3412—Architectural History Since 1750, HP, IP (3 cr)

Business Courses
MGMT 1350—Introduction to Business and Business Careers (3 cr)
or MGMT 3001—Fundamentals of Management (3 cr)

Communication Courses
COMM 1101—Introduction to Public Speaking (3 cr)
or PSTL 1461—Multicultural Perspectives in Public Speaking, C/PE (3 cr)
WRIT 3562W—Technical and Professional Writing, WI (4 cr)

Psychology Courses
PSY 1001—Introduction to Psychology, SSCI (4 cr)
or PSTL 1281—Principles of Psychology, SSCI (4 cr)

Major Courses
Recommended courses to take if elective credits are needed:
DHA 4131, DHA 4330, DHA 4340, DHA 4165, and DHA 5481.

Program Requirements
All coursework in the major must be taken A-F (with the exception of the internship).

Design Courses
DHA 1101W—Introduction to Design Thinking, OH, WI (4 cr)
DHA 1111—Creative Problem Solving (3 cr)
DHA 2101—Design and Visual Presentation (3 cr)

Retail Merchandising Courses
DHA 1201—Clothing Design, Merchandising, and the Consumer, C/PE (3 cr)
DHA 3201—Strategic Career Planning (1 cr)
DHA 3242—Retail Buying (3 cr)
DHA 3245—Multichannel Retailing (3 cr)
DHA 4196—Internship in DHA (2 cr)
DHA 4217—International Developments in Textiles and Apparel, IP (3 cr)
DHA 4216—Retail Promotion and Consumer Decision Making (4 cr)
DHA 3243—Visual Merchandising (3 cr)

Business Courses
DHA 1203—Computer Literacy and Problem Solving (3 cr)
HRIR 3021—Human Resource Management and Industrial Relations (3 cr)
MATH 1031—College Algebra and Probability, MATH (3 cr)
MGMT 3001—Fundamentals of Management (3 cr)

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

Retail merchandising apparel emphasis

Advanced Retail Merchandising Courses
DHA 2213—Textile Analysis (4 cr)
DHA 2214—Softlines Analysis (3 cr)
DHA 4212W—Dress, Society, and Culture, CD, WI (3 cr)
DHA 5215—Product Development: Softlines (4 cr)
DHA 4121—History of Costume (4 cr)
or DHA 3217—Fashion Trends and Visual Analysis (3 cr)

Retail merchandising general emphasis

Advanced Merchandising Courses
DHA 4247—Advanced Buying and Sourcing (3 cr)
DHA 4117—Retail Environments and Human Behavior (3 cr)
Business Advanced Courses
MGMT 3010—Introduction to Entrepreneurship (4 cr)
or MGMT 3040—Understanding the International Environment of Firms:
   International Business, IP (3 cr)
or MGMT 4002—Managerial Psychology (4 cr)
or MKTG 4030—Selling and Sales Management (4 cr)
or MKTG 4080—Marketing Strategy (4 cr)

Retail Merchandising Minor

• Required credits in this minor: 15 to 17.
  See major description for more information.

Program Requirements
DHA 1201—Clothing Design, Merchandising, and the Consumer, C/PE (3 cr)
DHA 3242—Retail Buying (3 cr)
Take 3 or more course(s) from the following:
DHA 3243—Visual Merchandising (3 cr)
DHA 3245—Multichannel Retailing (3 cr)
DHA 4216—Retail Promotion and Consumer Decision Making (4 cr)
DHA 4217—International Developments in Textiles and Apparel, IP (3 cr)
DHA 4247—Advanced Buying and Sourcing (3 cr)