



College of **DESIGN**

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General Information

We live in what Roger Martin, the dean of the business school at the University of Toronto, calls a “design economy,” in which the greatest value lies with activities that apply the creative problem-solving abilities of designers to the problems of the world. Martin sees design not just as a skill needed to create new products or environments, but also as a way of thinking that can help organizations deal with the rapidly changing and highly competitive conditions of the modern economy. While traditional design jobs have been affected by current economic conditions, the opportunities to apply design-thinking skills to almost every aspect of our daily lives have grown exponentially.

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 website 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 or 800-752-1000

<http://admissions.tc.umn.edu>

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

College of Design

612-626-3690

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 612-626-3690.

Degrees/Majors

The College of Design offers the following degrees and majors.

Bachelor of science (B.S.)

Majors in architecture, apparel design, housing studies, interior design, retail merchandising

Bachelor of design in architecture (B.D.A.)

Bachelor of environmental design (B.E.D.)

Major in landscape design and planning

Bachelor of fine arts (B.F.A.)

Major in graphic design

Bachelor of arts (B.A.)

Major in architecture offered in cooperation with the College of Liberal Arts

Majors in apparel 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 landscape design and planning 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 landscape design and planning includes an accelerated status option to allow qualified undergraduates to complete the undergraduate major and 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

Housing studies

Landscape design and planning

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

The University Honors Program (UHP) offers 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 size, 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 website at www.honors.umn.edu.

Students admitted to honors 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 forward follow the requirements of the University Honors Program. Students admitted to a college honors program before fall 2008 and who change colleges, must apply to 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 2015 without qualifications. In 2006 the Landscape Architectural Accreditation Board (LAAB) fully reaccredited the M.L.A. degree to 2012. 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.

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, internship and learning abroad information, graduation clearance, commencement, and other student issues for all majors. Student services also assists with access to the mentor program 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 or refer to <http://admissions.tc.umn.edu/visit>. Prospective transfer students should call the College of Design at 612-626-3690.

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 landscape design and planning majors and minors) or 612-624-1717 (for apparel design, graphic design, housing studies, interior design, or retail merchandising majors).

Learning Enrichment and Engagement Opportunities

CDes provides great resources and opportunities for hands-on experience, involvement, and personal growth to help students learn and develop outside of the classroom.

Internships

Internships allow students to develop new skills and gain professional experience in an occupation are they are considering. Most CDes majors require a for-credit internship where students have a faculty supervisor and an on-site supervisor.

Mentor Program

This annual program helps students grow professionally by matching them with a mentor in their field of study. Mentoring pairs create individualized action plans that help students with career exploration, experiential learning, networking, and skill building.

Learning abroad

The University encourages students to participate in an international study experience as part of their degree program. Students can study abroad during a May term, summer session, semester, or full year.

Service learning and volunteering

Make a difference in the world by volunteering in the community or by taking a service learning course. CDes students develop professional skills and contacts while applying their coursework to real-world situations.

Campus leadership and involvement

The University offers a variety of leadership programs and workshops to help students develop their leadership skills. These opportunities are structured experiences that provide a direct service to the campus community.

Undergraduate research

The University's Undergraduate Research Opportunities Program (UROP) offers financial awards twice yearly to full-time undergraduates for research, scholarly or creative projects undertaken partnership with a faculty member.

Student organizations

Students can become involved in a wide variety of college, University, and professional organizations. Many design-related professional organizations have active student chapters on campus.

Visiting lectures and exhibitions

CDes regularly invites nationally and internationally known practitioners and educators to visit campus and address students and faculty on various topics. Exhibits in Rapson Hall and McNeal Hall are devoted to outstanding design work and critical issues in the field.

Career Services and Programs

CDes academic programs partner with the college's student services offices, alumni relations office, Design Student and Alumni Board, as well as University Career Services to offer a variety of opportunities for students to enhance their academic experience while boosting professional skills, networks, and leadership.

Scholarships

The college awards scholarships annually. For more information and application deadlines, refer to the CDes website at www.design.umn.edu.

- Freshman scholarships (Freshman students are automatically considered for scholarships based on their admissions applications.)
- Continuing-student scholarships
- Learning abroad scholarships
- Professional development funding

Directory

Administration

Office of the Dean

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

Student Services

Architecture and landscape design and planning 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

School head: Renee Cheng
145 Rapson Hall, Minneapolis
612-624-7866

Department of Design, Housing, and Apparel

Department head: Becky Love Yust
240 McNeal Hall, St. Paul
612-624-9700

Department of Landscape Architecture

Department head: Lance Neckar
144 Rapson Hall, Minneapolis
612-625-6068

Degree Programs and Minors

Apparel Design B.S.

Design, Housing, and Apparel—Clothing Design

- Required credits to graduate with this degree: 120.
- Required credits within the major: 77 to 81.

Apparel design students learn to design, produce, and market apparel 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. The program incorporates custom design and industry production approaches and features projects that emphasize fashion and function.

The program focuses on a research-based design process used by many design industries, and courses incorporate industry-sponsored projects and community service projects. Studio courses closely replicate the professional working methods of apparel designers. In addition to providing a strong liberal arts curriculum, courses offer essential background in costume history, consumer behavior, and social and cultural meanings of apparel. A required internship and mentor experience provides students with professional experience. An annual fashion show presents students' achievements to the professional community.

Students enter the program as pre-apparel design majors. To attain full major status, they must complete six required pre-apparel 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 apparel construction/assembly competence and a working knowledge of microcomputers and software.

To complete the major, students must take six sequential apparel 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 2.50 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.

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

For information about University of Minnesota admission requirements, visit the [Office of Admissions website](#).

Required Pre-Apparel Design Courses

Students must demonstrate competence in basic apparel construction skills by successfully completing ADES 1221.

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

ADES 1221—Apparel Assembly Fundamentals (3 cr)

ADES 2221—Apparel Design Studio I (4 cr)

DES 1101W—Introduction to Design Thinking, AH, WI (4 cr)

GDES 1311—Foundations: Drawing and Design in Two and Three Dimensions (4 cr)

GDES 1312—Foundations: Color and Design in Two and Three Dimensions (4 cr)

RM 1201—Clothing Design, Merchandising, and the Consumer, CIV (3 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 (3 cr)

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

or ENGL 3027W—The Essay, WI (4 cr)

Major Courses

ADES 2211—Illustration for Apparel Design (3 cr)

ADES 2213—Textile Analysis (4 cr)

ADES 2222—Apparel Design Studio II (4 cr)

ADES 3217—Fashion: Trends and Communication (3 cr)

ADES 3223—Apparel Design Studio III (4 cr)

ADES 3224—Apparel Design Studio IV (4 cr)

ADES 3225—Apparel Design Research (1 cr)

ADES 4121—History of Costume (4 cr)

ADES 4196—Internship in Apparel Design (1–4 cr)

ADES 4215—Product Development: Softlines (4 cr)

ADES 4225—Apparel Design Studio V (3 cr)

ADES 4226—Apparel Design Studio VI (4 cr)

GDES 3312—Color and Form in Surface Design (3 cr)

GDES 4330—Surface Fabric Design Workshop (4 cr)

RM 4212W—Dress, Society, and Culture, WI (3 cr)

RM 2215—Multichannel Retailing (3 cr)

or RM 4217—International Retail Markets, GP (3 cr)

or RM 4216—Retail Promotion and Consumer Decision Making (4 cr)

Program Sub-plans

A sub-plan is not required for this program.

Honors (UHP) Sub-plan

Students admitted to the University Honors Program (UHP) must fulfill UHP requirements in addition to degree program requirements. Honors courses used to fulfill degree program requirements will also fulfill UHP requirements. Current departmental honors course offerings are listed at www.honors.umn.edu/academics/curriculum/dept_courses_current.html.

Honors students complete an honors thesis project in the final year, most often in conjunction with an honors thesis course, or with an honors directed studies or honors directed research course. Students select honors courses and plan for a thesis project in consultation with their UHP adviser and their departmental faculty adviser.

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 the [Office of Admissions website](#).

Required Courses for Admission

Students must also complete first-year writing requirement (with a minimum grade of C-), all high school prep requirements, and a total 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 (4 cr)

ARCH 2281—Design Fundamentals II (4 cr)

ARCH 3711W—Environmental Design and the Sociocultural Context, C/PE, WI (3 cr)

ARCH 3411W—Architectural History to 1750, HIS, GP, WI (3 cr)

ARCH 3412—Architectural History Since 1750 (3 cr)

ARCH 3611—Design in the Digital Age (3 cr)

ARCH 4561—Architecture and Ecology (3 cr)

ARCH 4701W—Introduction to Urban Form and Theory, WI (3 cr)

LA 3501—Environmental Design and Its Biological and Physical Context, ENV (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)

Calculus

MATH 1142—Short Calculus (4 cr)

or MATH 1271—Calculus I (4 cr)

Physics

PHYS 1101W—Introductory College Physics I, PHYS, WI (4 cr)

or PHYS 1201W—Introductory Physics for Biology and Pre-medicine I, PHYS, WI (5 cr)

or PHYS 1301W—Introductory Physics for Science and Engineering I, PHYS, WI (4 cr)

Architecture Electives

Students must take 5 courses, 15 credits minimum, but may not include ARCH 3351 or ARCH 3352.

Take 15 or more credit(s) from the following:

ARCH 3xxx

ARCH 4xxx

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.

Program Sub-plans

A sub-plan is not required for this program.

Honors (UHP) Sub-plan

Students admitted to the University Honors Program (UHP) must fulfill UHP requirements in addition to degree program requirements. Honors courses used to fulfill degree program requirements will also fulfill UHP requirements. Current departmental honors course offerings are listed at www.honors.umn.edu/academics/curriculum/dept_courses_current.html.

Honors students complete an honors thesis project in the final year, most often in conjunction with an honors thesis course, or with an honors directed studies or honors directed research course. Students select honors courses and plan for a thesis project in consultation with their UHP adviser and their departmental faculty adviser.

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 must complete 10 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:

- 2.80 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 the [Office of Admissions website](#).

Prerequisites for admission to the B.A. or B.D.A.

ARCH 1281—Design Fundamentals I (4 cr)

ARCH 1701—The Designed Environment (3 cr)

Prerequisites for admission to the B.S.

ARCH 2301—Introduction to Drawing in Architecture (4 cr)

ARCH 2281—Design Fundamentals II (4 cr)

ARCH 3711W—Environmental Design and the Sociocultural Context, C/PE, WI (3 cr)

ARCH 3411W—Architectural History to 1750, HIS, GP, WI (3 cr)

ARCH 3412—Architectural History Since 1750 (3 cr)

LA 3501—Environmental Design and Its Biological and Physical Context, ENV (3 cr)

MATH 1142—Short Calculus (4 cr)

or MATH 1271—Calculus I (4 cr)

PHYS 1101W—Introductory College Physics I, PHYS, WI (4 cr)

or PHYS 1201W—Introductory Physics for Biology and Pre-medicine I, PHYS, WI (5 cr)

or PHYS 1301W—Introductory Physics for Science and Engineering I, PHYS, 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—Undergraduate Architecture Studio 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 4701W—Introduction to Urban Form and Theory, WI (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

ARCH 4xxx

Upper division credits outside the major

Take 9 upper division credits outside the major.

Program Sub-plans

A sub-plan is not required for this program.

Honors (UHP) Sub-plan

Students admitted to the University Honors Program (UHP) must fulfill UHP requirements in addition to degree program requirements. Honors courses used to fulfill degree program requirements will also fulfill UHP requirements. Current departmental honors course offerings are listed at www.honors.umn.edu/academics/curriculum/dept_courses_current.html.

Honors students complete an honors thesis project in the final year, most often in conjunction with an honors thesis course, or with an honors directed studies or honors directed research course. Students select honors courses and plan for a thesis project in consultation with their UHP adviser and their departmental faculty adviser.

Accelerated Program Sub-plan

Accelerated status in architecture is a competitive opportunity for qualified undergraduates to complete the B.S. with a major in architecture and the M.Arch. degree in six years rather than seven. Accelerated status applicants must complete all but 14 credits of upper division architecture courses before their senior year.

Students complete the first year of the graduate professional degree program in their senior year; courses carry upper division credit and complete the B.S.

To be considered for accelerated status, students must be enrolled at the University as a B.S. major in architecture, have completed one year of architecture design studio (ARCH 3281, ARCH 3282), have completed 90 credits, and have earned an overall GPA of 3.50. Admission to accelerated status does not guarantee admission to the graduate professional program; separate requirements, such as the Graduate Record Examination (GRE) and other application documents, must be submitted in January of the year admission to the graduate program is sought. See the director of graduate studies in the School of Architecture for additional criteria. Deadline for consideration is June 15.

Architecture Minor

School of Architecture

- 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.

Minor courses

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)
 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

Design Minor

College of Design

This is a free-standing minor.

- 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.

Minor Requirements

Students majoring in apparel design, architecture, graphic design, housing studies, interior design, landscape design and planning, or retail merchandising follow different requirements. See below.

For all students, only one course may be used both for the major and the design minor, and courses may not double dip in the minor.

Foundation Courses

“Design thinking” is waived for majors in apparel design, architecture, graphic design, housing studies, interior design, landscape design and planning, or retail merchandising, and replaced by an additional elective course.

DES 1101W—Introduction to Design Thinking, AH, WI (4 cr)
 DES 4301—Design Minor Seminar (3 cr)

Core Electives

Students may also take any DES 33xx or DES 43xx course not listed below.

Take 2 or more course(s) from the following:
 ARCH 3611—Design in the Digital Age (3 cr)
 DES 3311—Travels in Typography (3 cr)

DES 3321—Introduction to Furniture Design (3 cr)
 DES 3331—Street Life Urban Design Seminar (3 cr)
 DES 3341—(un)Wrapping It Up: New Materials for Design, Design for New Materials (3 cr)
 DES 3351—Phenomenon of Everyday Design (3 cr)
 JOUR 4551—New Media Culture, AH, TS (3 cr)
 KIN 3505—Intro to Human-Centered Design (3 cr)
 ME 2011—Introduction to Engineering (4 cr)

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 the College of Design

For students other than apparel design, architecture, graphic design, housing studies, interior design, landscape design and planning, or retail merchandising majors. Students may also take any DES 33xx or DES 43xx course not listed below.

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 3411W—Architectural History to 1750, HIS, GP, WI (3 cr)
 ARCH 3412—Architectural History Since 1750 (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 3422—Off the Wall: History of Graphic Arts in Europe and America in the Modern Age (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, CIV, WI (3 cr)
 CSCL 5256W—Suburbia, WI (3 cr)
 DES 3311—Travels in Typography (3 cr)
 DES 3321—Introduction to Furniture Design (3 cr)
 DES 3331—Street Life Urban Design Seminar (3 cr)
 DES 3341—(un)Wrapping It Up: New Materials for Design, Design for New Materials (3 cr)
 DES 3351—Phenomenon of Everyday Design (3 cr)
 GDES 4131W—History of Graphic Design, WI (4 cr)
 GEOG 3361W—Geography and Public Policy, WI (3 cr)
 GEOG 3371W—Cities, Citizens, and Communities, DSJ, WI (4 cr)
 GEOG 3373—Changing Form of the City, HIS, GP (3 cr)
 GEOG 3511—Principles of Cartography (4 cr)
 GEOG 3605W—Geographical Perspectives on Planning, WI (4 cr)
 GEOG 5393—Rural Landscapes and Environments (4 cr)
 HIST 3705—From Printing Press to Internet: Media, Communications, and History (3 cr)
 HSCI 4302—History of High-Technology Weapons (3 cr)
 HSCI 5411—Art and Science in Early Modern Europe (3 cr)
 HUMF 5001—Foundations of Human Factors/Ergonomics (3 cr)
 IDES 3161—History of Interiors and Furnishings: Ancient to 1750, GP (4 cr)
 IDES 3162—History of Interiors and Furnishings: 1750 to Present (4 cr)
 JOUR 3008—Mass Communication Processes and Structure (3 cr)
 JOUR 3745—Mass Media and Popular Culture, AH (3 cr)
 JOUR 4272—Interactive Advertising (3 cr)
 JOUR 4551—New Media Culture, AH, TS (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, HIS, GP (3 cr)
 LA 3501—Environmental Design and Its Biological and Physical Context, ENV (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)
 RM 4212W—Dress, Society, and Culture, WI (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 (3 cr)

Electives for College of Design or CLA architecture students

Only one course may be used in both the major and the minor. Students may also take any DES 33xx or DES 43xx course not listed below.

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 3411W—Architectural History to 1750, HIS, GP, WI (3 cr)
 ARCH 3412—Architectural History Since 1750 (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 3422—Off the Wall: History of Graphic Arts in Europe and America in the Modern Age (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, CIV, WI (3 cr)
 CSCL 5256W—Suburbia, WI (3 cr)
 DES 3311—Travels in Typography (3 cr)
 DES 3321—Introduction to Furniture Design (3 cr)
 DES 3331—Street Life Urban Design Seminar (3 cr)
 DES 3341—(un)Wrapping It Up: New Materials for Design, Design for New Materials (3 cr)
 DES 3351—Phenomenon of Everyday Design (3 cr)
 GDES 4131W—History of Graphic Design, WI (4 cr)
 GEOG 3361W—Geography and Public Policy, WI (3 cr)
 GEOG 3371W—Cities, Citizens, and Communities, DSJ, WI (4 cr)
 GEOG 3373—Changing Form of the City, HIS, GP (3 cr)
 GEOG 3511—Principles of Cartography (4 cr)
 GEOG 3605W—Geographical Perspectives on Planning, WI (4 cr)
 GEOG 5393—Rural Landscapes and Environments (4 cr)
 HIST 3705—From Printing Press to Internet: Media, Communications, and History (3 cr)
 HSCI 4302—History of High-Technology Weapons (3 cr)
 HSCI 5411—Art and Science in Early Modern Europe (3 cr)
 HUMF 5001—Foundations of Human Factors/Ergonomics (3 cr)
 IDES 3161—History of Interiors and Furnishings: Ancient to 1750, GP (4 cr)
 IDES 3162—History of Interiors and Furnishings: 1750 to Present (4 cr)
 JOUR 3006—Visual Communication (3 cr)
 JOUR 3008—Mass Communication Processes and Structure (3 cr)
 JOUR 3745—Mass Media and Popular Culture, AH (3 cr)
 JOUR 4272—Interactive Advertising (3 cr)
 JOUR 4551—New Media Culture, AH, TS (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, HIS, GP (3 cr)
 LA 3501—Environmental Design and Its Biological and Physical Context, ENV (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)
 RM 4212W—Dress, Society, and Culture, WI (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 (3 cr)

Graphic Design B.F.A.

Design, Housing, and Apparel—Graphic Design

- 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 2.50 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 the [Office of Admissions website](#).

Required Courses for Admission

Pre-Graphic Design Courses

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

Program Requirements

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

Communication Courses

COMM 1101—Introduction to Public Speaking (3 cr)
 or PSTL 1461—Multicultural Perspectives in Public Speaking (3 cr)
 WRIT 3562W—Technical and Professional Writing, WI (4 cr)
 or ENGL 3027W—The Essay, WI (4 cr)

Art History Courses

ARCH 3411W—Architectural History to 1750, HIS, GP, WI (3 cr)
 or ARCH 3412—Architectural History Since 1750 (3 cr)
 or ARTH 1xxx, 2xxx, 3xxx, 4xxx, or 5xxx

- or ADES 4121—History of Costume (4 cr)
 or IDES 3161—History of Interiors and Furnishings: Ancient to 1750, GP (4 cr)

Business, Economics, or Marketing Courses

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

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

History Courses

- AFRO 3204—History of South Africa to 1910 (3 cr)
 or AFRO 3205—History of South Africa from 1910 (3 cr)
 or AFRO 3431—Early Africa and Its Global Connections (4 cr)
 or AFRO 3432—Modern Africa in a Changing World, HP, IP (4 cr)
 or AFRO 3864—African American History: 1619 to 1865 (4 cr)
 or AFRO 3865—African American History: 1865 to the Present (4 cr)
 or AMIN 3871—American Indian History: Pre-Contact to 1830 (3 cr)
 or AMIN 3872—American Indian History: 1830 to the Present (3 cr)
 or CNES 1043—Introduction to Greek and Roman Archaeology (4 cr)
 or PSTL 1231—U.S. History: Multicultural Perspectives, HIS, DSJ (4 cr)
 or PSTL 1251—Global History and Culture, HIS, GP (4 cr)
 or HIST 1011V—Honors: Global Societies Before 1500, WI, H (4 cr)
 or HIST 1011W—Origins: Global Societies Before 1500, HIS, ENV, WI (4 cr)
 or HIST 1012V—Honors: The Age of Global Contact, WI, H (4 cr)
 or HIST 1012W—The Age of Global Contact, HIS, GP, WI (4 cr)
 or HIST 1015W—Globalization: Issues and Challenges, GP, WI (4 cr)
 or HIST 1017—Origins: Global Societies Before 1500 (3 cr)
 or HIST 1018—The Age of Global Contact (3 cr)
 or HIST 1019—Globalization: Issues and Challenges (3 cr)
 or HIST 1026—Europe and the World: Expansion, Encounter, and Exchange to 1500 (3 cr)
 or HIST 1027—Europe and the World: Expansion, Encounter, and Exchange from 1500 to Present (3 cr)
 or HIST 1031V—Europe and the World: Expansion, Encounter, and Exchange to 1500, WI, H (4 cr)
 or HIST 1031W—Europe and the World: Expansion, Encounter, and Exchange to 1500, HIS, GP, WI (4 cr)
 or HIST 1032V—Europe and the World: Expansion, Encounter, and Exchange From 1500 to Present, WI, H (4 cr)
 or HIST 1032W—Europe and the World: Expansion, Encounter, and Exchange from 1500 to Present, HIS, GP, WI (4 cr)
 or HIST 1301V—Authority and Rebellion: American History to 1865, WI, H (4 cr)
 or HIST 1301W—Authority and Rebellion: American History to 1865, HIS, DSJ, WI (4 cr)
 or HIST 1302V—Global America: U.S. History Since 1865, WI, H (4 cr)
 or HIST 1302W—Global America: U.S. History Since 1865, HIS, DSJ, WI (4 cr)
 or HIST 1307—Authority and Rebellion: American History to 1865 (3 cr)
 or HIST 1308—Global America: U.S. History Since 1865 (3 cr)
 or HIST 3151W—British History to the 17th Century, HIS, GP, WI (4 cr)
 or HIST 3152—British History From the Seventeenth Century, HIS (4 cr)
 or HIST 3211—History of Sexuality in Europe (3 cr)
 or HIST 3347—Women in Early and Victorian America: 1600-1890 (3 cr)
 or HIST 3348—Women in Modern America (3–4 cr)
 or HIST 3401W—Early Latin America to 1825, HIS, GP, 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, HIS, GP (4 cr)
 or HIST 3432—Modern Africa in a Changing World, HIS, GP (4 cr)
 or HIST 3461—Introduction to East Asia I: The Imperial Age (3–4 cr)
 or HIST 3462—From Subjects to Citizens: The History of East Asia From 1500 to the Present, HIS, GP (3–4 cr)

- or HIST 3467W—State and Revolution in Modern China, WI (3 cr)
 or HIST 3468—Social Change in Modern China (3 cr)
 or HIST 3471—Modern Japan, Meiji to the Present (1868-2000), HIS (3 cr)
 or HIST 3472—Early Modern Japan (3 cr)
 or HIST 3608W—History of the Catholic Church in the Middle Ages, WI (3 cr)
 or HIST 3611—Medieval Cities of Europe: 500-1500, HIS (3 cr)
 or HIST 3615W—Women in European History: 1500 to the Present, HIS, GP, WI (3 cr)
 or HIST 3616—France in the Middle Ages (3 cr)
 or HIST 3621—Renaissance Italy: 1200-1550 (3 cr)
 or HIST 3626—France From the Late 16th Century Through Napoleon: 1594-1815 (3 cr)
 or HIST 3703W—European Cities: 1300-1800, WI (3 cr)
 or HIST 3704W—Daily Life in Europe: 1300-1800, HIS, GP, WI (3 cr)
 or HIST 3721—Studies in 20th-Century Europe From the Turn of the Century to the End of World War II: 1900-45 (3 cr)
 or HIST 3722—Studies in 20th-Century Europe From the End of World War II to the End of the Cold War: 1945-91 (3 cr)
 or HIST 3801—The People of Early America: 16th to 18th Centuries (3 cr)
 or HIST 3871—American Indian History: Pre-Contact to 1830, HIS (3 cr)
 or HIST 3872—American Indian History: 1830 to the Present, HIS, DSJ (3 cr)
 or HSCI 1714—Technology and Civilization: Stone Tools to Steam Engines, HIS, TS (3–4 cr)
 or HSCI 1715—Technology and Civilization: Waterwheels to the Web, HIS, TS (3–4 cr)
 or HIST 1814—Revolutions in Science: The Babylonians to Newton, HIS, GP (3–4 cr)
 or HSCI 1815—Revolutions in Science: Lavoisier, Darwin, and Einstein, HIS, GP (3–4 cr)
 or HSCI 3331—Technology and American Culture (3 cr)
 or HSCI 3332—Science and American Culture, HIS, DSJ (3 cr)
 or HSCI 3714—Technology and Civilization: Stone Tools to Steam Engines, HIS, TS (3–4 cr)
 or HSCI 3715—Technology and Civilization: Waterwheels to the Web, HIS, TS (3–4 cr)
 or HSCI 3814—Revolutions in Science: The Babylonians to Newton, HIS, GP (3–4 cr)
 or HSCI 3815—Revolutions in Science: Lavoisier, Darwin, and Einstein, HIS, GP (3–4 cr)

Photography Courses

- ARTS 1701—Photography, AH (4 cr)
 or GDES 4351—Design Process: Photography (3 cr)
 or PSTL 1485—Creativity: Photography (4 cr)

Major Courses

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

Emphasizing Materials Courses

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

- GDES 4330—Surface Fabric Design Workshop (4 cr)
 or GDES 4351—Design Process: Photography (3 cr)
 or GDES 4352—Design Process: Bookmaking (3 cr)

Electives

See an adviser for course options other than those listed below.

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

- GDES 5341—Interactive Design (3 cr)
- GDES 5342—Web and Interface Design (3 cr)
- GDES 5383—Digital Illustration and Animation (3 cr)
- GDES 5386—Fundamentals of Game Design (3 cr)

Program Sub-plans

A sub-plan is not required for this program.

Honors (UHP) Sub-plan

Students admitted to the University Honors Program (UHP) must fulfill UHP requirements in addition to degree program requirements. Honors courses used to fulfill degree program requirements will also fulfill UHP requirements. Current departmental honors course offerings are listed at www.honors.umn.edu/academics/curriculum/dept_courses_current.html.

Honors students complete an honors thesis project in the final year, most often in conjunction with an honors thesis course, or with an honors directed studies or honors directed research course. Students select honors courses and plan for a thesis project in consultation with their UHP adviser and their departmental faculty adviser.

Housing Studies B.S.

Design, Housing, and Apparel—Housing Studies

- Required credits to graduate with this degree: 120.
- Required credits within the major: 70 to 73.
- 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 the [Office of Admissions website](#).

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 (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 (HSG 4196).

- HSG 2401—Introduction to Housing (3 cr)
- HSG 2463—Housing and Community Development (3 cr)
- HSG 4196—Internship in Housing Studies (1–4 cr)
- HSG 4461—Housing Development and Management (3 cr)
- HSG 4467W—Housing and the Social Environment, WI (4 cr)
- HSG 5463—Housing Policy (3 cr)
- DES 1101W—Introduction to Design Thinking, AH, WI (4 cr)
- or ARCH 1701—The Designed Environment (3 cr)
- or ARCH 1281—Design Fundamentals I (4 cr)
- or LA 1201—Learning from the Landscape, AH, DSJ (3 cr)
- HSG 4465—Housing in a Global Perspective (3 cr)
- or HSG 5484—Rural Housing Issues (3 cr)
- HSG 5481—Promoting Independence in Housing and Community (3 cr)
- or HSG 3482—Our Home, Our Environment (3 cr)
- APEC 1101—Principles of Microeconomics (3 cr)
- or APEC 1102—Principles of Macroeconomics, IP, SSCI (3 cr)
- or ECON 1101—Principles of Microeconomics, SOCS (4 cr)
- or ECON 1102—Principles of Macroeconomics, IP, SSCI (4 cr)
- or ECON 3701—Money and Banking (3 cr)
- or ECON 3801—Elements of Public Economics (3 cr)
- FSOS 3101—Personal and Family Finances (3 cr)
- or FSOS 3102—Family Systems and Diversity, SOCS, DSJ (3 cr)
- or FSOS 4106—Family Resource Management (3 cr)
- GEOG 3371W—Cities, Citizens, and Communities, DSJ, WI (4 cr)
- or GEOG 3605W—Geographical Perspectives on Planning, WI (4 cr)
- or GEOG 5372W—American Cities II: Land Use, Transportation, and the Urban Economy, WI (4 cr)
- or PA 4200—Urban and Regional Planning (3 cr)
- EPSY 3264—Basic and Applied Statistics (3 cr)
- or PSTL 1004—Statistics, MATH (4 cr)
- or OMS 2550—Business Statistics: Data Sources, Presentation, and Analysis (4 cr)
- or STAT 1001—Introduction to the Ideas of Statistics, MATH (4 cr)
- or STAT 3011—Introduction to Statistical Analysis, MATH (4 cr)
- HSG 4413—A Systems Approach to Residential Construction (4 cr)
- or BBE 4413—Systems Approach to Residential Construction (4 cr)

Program Sub-plans

Students are required to complete one of the following sub-plans. (Note for the Twin Cities and Morris campuses: The honors sub-plan does not meet this requirement. Honors students are required to complete one sub-plan plus the honors sub-plan. Please see an adviser if no honors sub-plan is listed for the program.)

Community Development and Policy Sub-plan

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.

HSG 5464 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: landscape design and planning, geography, social justice, urban studies.

- HSG 5464—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)
 HSG 3482—Our Home, Our Environment (3 cr)
 HSG 4465—Housing in a Global Perspective (3 cr)
 HSG 5481—Promoting Independence in Housing and Community (3 cr)
 HSG 5484—Rural Housing Issues (3 cr)
 FSOS 3102—Family Systems and Diversity, SOCS, DSJ (3 cr)
 GEOG 3371W—Cities, Citizens, and Communities, DSJ, WI (4 cr)
 GEOG 3373—Changing Form of the City, HIS, GP (3 cr)
 GEOG 3605W—Geographical Perspectives on Planning, 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, SOCS (4 cr)
 SOC 1001—Introduction to Sociology, SOCS (4 cr)
 SOC 3201—Inequality: Introduction to Stratification (3 cr)
 SOC 3211W—American Race Relations, SOCS, DSJ, WI (3 cr)
 SOC 3451W—Cities and Social Change, WI (3 cr)
 URBS 1001W—Introduction to Urban Studies: The Complexity of Metropolitan Life, WI (3 cr)
 URBS 3301W—American Cities As Settings for Cultural Diversity, WI (3 cr)
 URBS 3751—Understanding the Urban Environment, ENV (3 cr)
 URBS 5101—The City and the Metropolis: An Exploration (3 cr)
 WRIT 4258—Information-Gathering Techniques in Scientific and Technical Communication (3 cr)
 WRIT 4573W—Writing Proposals and Grant Management, WI (3 cr)
 GEOG 5371W—American Cities I: Population and Housing, WI (4 cr)
 GEOG 5372W—American Cities II: Land Use, Transportation, and the Urban Economy, WI (4 cr)

Housing Technology Sub-plan

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.

Completion 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:

ARCH 3412—Architectural History Since 1750 (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 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)
 IDES 1601—Interior Design Studio I (4 cr)
 IDES 1602—Interior Design Studio II (4 cr)
 IDES 2612—Interior Materials and Specifications, ENV (4 cr)
 IDES 2613—Lighting Design and Life Safety Issues (4 cr)
 IDES 2621—Computer Aided Design: Interior Design (4 cr)
 HSG 3482—Our Home, Our Environment (3 cr)
 HSG 4465—Housing in a Global Perspective (3 cr)

HSG 5464—Understanding Housing: Assessment and Analysis (3 cr)
 HSG 5481—Promoting Independence in Housing and Community (3 cr)
 HSG 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 (3 cr)
 WRIT 4573W—Writing Proposals and Grant Management, WI (3 cr)

Management/Finance Sub-plan

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.

Completion 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 (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)
 HSG 3482—Our Home, Our Environment (3 cr)
 HSG 4465—Housing in a Global Perspective (3 cr)
 HSG 5464—Understanding Housing: Assessment and Analysis (3 cr)
 HSG 5481—Promoting Independence in Housing and Community (3 cr)
 HSG 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)
 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 3040—Buyer Behavior (4 cr)
 WRIT 4573W—Writing Proposals and Grant Management, WI (3 cr)
 APEC 1101—Principles of Microeconomics (3 cr)
 or ECON 1101—Principles of Microeconomics, SOCS (4 cr)
 APEC 1102—Principles of Macroeconomics, IP, SSCI (3 cr)
 or ECON 1102—Principles of Macroeconomics, IP, SSCI (4 cr)
 APEC 1251—Principles of Accounting (3 cr)
 or ACCT 2050—Introduction to Financial Reporting (4 cr)

Selected Populations

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

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, bi-sexual, 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 and 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:

HSG 5481—Promoting Independence in Housing and Community (3 cr)
 HSG 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)
 PUBH 3001—Personal and Community Health (2 cr)
 WRIT 4573W—Writing Proposals and Grant Management, WI (3 cr)
 WRIT 4258—Information-Gathering Techniques in Scientific and Technical Communication (3 cr)
 SW 1001—Introduction to the World of Social Work: A Global Perspective (3 cr)
 SW 5313—Social Work with Older Adults (2 cr)
 GWSS 4201—The Older Woman: A Feminist Perspective (3 cr)

or

Selected Populations: low income, communities of color, and households with children

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

CPSY 3301—Introductory Child Psychology for Social Sciences (4 cr)
 HSG 5464—Understanding Housing: Assessment and Analysis (3 cr)
 HSG 5484—Rural Housing Issues (3 cr)
 FSOS 3101—Personal and Family Finances (3 cr)
 FSOS 3102—Family Systems and Diversity, SOCS, DSJ (3 cr)
 FSOS 3426—Alcohol and Drugs: Families and Culture (3 cr)
 FSOS 4106—Family Resource Management (3 cr)
 FSOS 4153—Family Financial Counseling (3 cr)
 FSOS 4156—Legal-Economic Controversies in Families (3 cr)
 GEOG 3375—Minority Settlement in America (3 cr)
 GEOG 5371W—American Cities I: Population and Housing, WI (4 cr)
 PA 5401—Poverty, Inequality, and Public Policy (3 cr)
 PA 5421—Racial Inequality and Public Policy (3 cr)
 POL 1001—American Democracy in a Changing World, SOCS (4 cr)
 PUBH 3001—Personal and Community Health (2 cr)
 PUBH 3003—Fundamentals of Alcohol and Drug Abuse (2 cr)
 SOC 1001—Introduction to Sociology, SOCS (4 cr)
 SOC 3201—Inequality: Introduction to Stratification (3 cr)
 SOC 3211W—American Race Relations, SOCS, DSJ, WI (3 cr)
 SOC 3251W—Sociological Perspectives on Race, Class, and Gender, SOCS, DSJ, WI (3 cr)
 SOC 3451W—Cities and Social Change, WI (3 cr)
 SOC 3501—Sociology of Families, SOCS, DSJ (3 cr)
 SW 1001—Introduction to the World of Social Work: A Global Perspective (3 cr)
 SW 3051—Cultural Diversity and the Helping Process (3 cr)
 SW 3101—Interventions in Community and Social Policy (3 cr)
 SW 3203—Interventions with Individuals and Groups (3 cr)
 SW 5101—Historical Origins and Contemporary Policies and Programs in Social Welfare (3–4 cr)
 WRIT 4258—Information-Gathering Techniques in Scientific and Technical Communication (3 cr)
 WRIT 4573W—Writing Proposals and Grant Management, WI (3 cr)

Honors (UHP) Sub-plan

Students admitted to the University Honors Program (UHP) must fulfill UHP requirements in addition to degree program requirements. Honors courses used to fulfill degree program requirements will also fulfill UHP requirements. Current

departmental honors course offerings are listed at www.honors.umn.edu/academics/curriculum/dept_courses_current.html.

Honors students complete an honors thesis project in the final year, most often in conjunction with an honors thesis course, or with an honors directed studies or honors directed research course. Students select honors courses and plan for a thesis project in consultation with their UHP adviser and their departmental faculty adviser.

Housing Studies Minor

Design, Housing, and Apparel—Housing Studies

- Required credits in this minor: 15.

See major description for more information.

Minor Requirements

Minor Courses

HSG 2401—Introduction to Housing (3 cr)
 HSG 2463—Housing and Community Development (3 cr)
 Take 3 or more course(s) from the following:
 HSG 4461—Housing Development and Management (3 cr)
 HSG 4465—Housing in a Global Perspective (3 cr)
 HSG 3482—Our Home, Our Environment (3 cr)
 HSG 5463—Housing Policy (3 cr)
 HSG 4467W—Housing and the Social Environment, WI (4 cr)
 HSG 5464—Understanding Housing: Assessment and Analysis (3 cr)
 HSG 5481—Promoting Independence in Housing and Community (3 cr)
 HSG 5484—Rural Housing Issues (3 cr)

Interior Design B.S.

Design, Housing, and Apparel—Interior Design

- Required credits to graduate with this degree: 120.
- Required credits within the major: 89–90.
- 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 a competitive 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 the [Office of Admissions website](#).

Required Courses for Admission

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.

DES 1101W—Introduction to Design Thinking, AH, WI (4 cr)

GDES 1311—Foundations: Drawing and Design in Two and Three Dimensions (4 cr)

GDES 1312—Foundations: Color and Design in Two and Three Dimensions (4 cr)

IDES 1601—Interior Design Studio I (4 cr)

IDES 1602—Interior Design Studio II (4 cr)

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).

Business Courses

MGMT 1350—Introduction to Business and Business Careers (3 cr)

or MGMT 3001—Fundamentals of Management (3 cr)

Communication Course

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

or ENGL 3027W—The Essay, WI (4 cr)

Psychology Courses

PSY 1001—Introduction to Psychology, SSCI (4 cr)

or PSTL 1281—Principles of Psychology, SOCS (4 cr)

Major Courses

Recommended courses to take if elective credits are needed:

GDES 4131W, GDES 4330, DES 4165, and HSG 5481.

ADES 2213—Textile Analysis (4 cr)

ARTS 1001—Introduction to Art History, AH (3 cr)

IDES 2603—Interior Design Studio III (4 cr)

IDES 2604—Interior Design Studio IV (4 cr)

IDES 2612—Interior Materials and Specifications, ENV (4 cr)

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

IDES 2621—Computer Aided Design: Interior Design (4 cr)

IDES 3605—Interior Design Studio V (4 cr)

IDES 3606—Interior Design Studio VI (4 cr)

IDES 3614—Interior Design Ethics and Professional Practice, CIV (4 cr)

IDES 3161—History of Interiors and Furnishings: Ancient to 1750, GP (4 cr)

IDES 3162—History of Interiors and Furnishings: 1750 to Present (4 cr)

ADES 4196—Internship in Apparel Design (1–4 cr)

IDES 4607—Interior Design Studio VII (4 cr)

IDES 4608—Interior Design Thesis (4 cr)

IDES 4615W—Interior Design Research, WI (2 cr)

Program Sub-plans

A sub-plan is not required for this program.

Honors (UHP) Sub-plan

Students admitted to the University Honors Program (UHP) must fulfill UHP requirements in addition to degree program requirements. Honors courses used to fulfill degree program requirements will also fulfill UHP requirements. Current departmental honors course offerings are listed at www.honors.umn.edu/academics/curriculum/dept_courses_current.html.

Honors students complete an honors thesis project in the final year, most often in conjunction with an honors thesis course, or with an honors directed studies or honors directed research course. Students select honors courses and plan for a thesis project in consultation with their UHP adviser and their departmental faculty adviser.

Landscape Design and Planning B.E.D.

Landscape Architecture

- Required credits to graduate with this degree: 120.
- Required credits within the major: 80 to 82.

Landscape design and planning focuses on the creation of livable communities that sustain ecological function, fulfill human aspirations for community development, public health, and safety, and are artistically evocative and meaningful. Core courses in design and planning introduce students to the history, theory, and practice of landscape design and planning at various geographic scales and in diverse settings. Students create integrative, collaborative, and beautiful designs for regions, communities, and sites to conserve ecosystems services and water and air resources, protect biodiversity, and to reduce dependence on fossil fuels.

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 the [Office of Admissions website](#).

Program Requirements

Design

- LA 1201—Learning from the Landscape, AH, DSJ (3 cr)
- LA 1401—The Designed Environment (3 cr)
- LA 3001—Understanding and Creating Landscape Space (3 cr)
- LA 3002—Informants of Creating Landscape Space (3 cr)
- LA 3003—Case Studies in Sustainable Landscape Planning and Design (3 cr)
- LA 4001—Sustainable Landscape Design and Planning Practices (3 cr)
- LA 4002—Implementation of Sustainable Landscape Architecture Design and Practice (3 cr)
- LA 4096—Internship in Landscape Design and Planning (1 cr)
- LA 4755—Infrastructure, Natural Systems, and Space of Inhabited Landscapes, TS (3 cr)

Design Communication

- LA 1301—Introduction to Landscape Architecture Drawing, AH (3 cr)
- LA 2301—Advanced Representation for Environmental Design (3 cr)
- LA 2302—Computer-Aided Representation for Environmental Design (3 cr)

Ecosystem Pattern and Process Core

- ESPM 3108—Ecology of Managed Systems, ENV (3 cr)
- HORT 1001—Plant Propagation, BIOL (4 cr)
- LA 3501—Environmental Design and Its Biological and Physical Context, ENV (3 cr)
- LA 3204—Holistic Landscape Ecology and Bioregional Practice (3 cr)
- LA 3571—Landscape Construction: Site Systems and Engineering (3 cr)

Social and Cultural Systems Core

- LA 3413—Introduction to Landscape Architectural History, HIS, GP (3 cr)
- ARCH 3711W—Environmental Design and the Sociocultural Context, C/PE, WI (3 cr)

Program Sub-plans

Students are required to complete one of the following sub-plans. (Note for the Twin Cities and Morris campuses: The honors sub-plan does not meet this requirement. Honors students are required to complete one sub-plan plus the honors sub-plan. Please see an adviser if no honors sub-plan is listed for the program.)

Accelerated Program Sub-plan

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.

Honors (UHP) Sub-plan

Students admitted to the University Honors Program (UHP) must fulfill UHP requirements in addition to degree program requirements. Honors courses used to fulfill degree program

requirements will also fulfill UHP requirements. Current departmental honors course offerings are listed at www.honors.umn.edu/academics/curriculum/dept_courses_current.html.

Honors students complete an honors thesis project in the final year, most often in conjunction with an honors thesis course, or with an honors directed studies or honors directed research course. Students select honors courses and plan for a thesis project in consultation with their UHP adviser and their departmental faculty adviser.

Landscape Planning Sub-plan

The landscape planning track prepares students for work planning sustainable landscape at the urban and regional scale.

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—Ecosystem Pattern and Process

- FR 3131—Geographical Information Systems (GIS) for Natural Resources, TS (4 cr)
- LA 3004—Regional Landscape Planning (3 cr)
- LA 3514—Making the Mississippi, CIV (3 cr)
- Take 2 or more course(s) from the following:*
- BBE 3023—Ecological Engineering Principles (3 cr)
- BBE 5513—Watershed Engineering (3 cr)
- BIOL 3407—Ecology (3 cr)
- BIOL 3409—Evolution (3 cr)
- CE 3501—Environmental Engineering, ENV (3 cr)
- EEB 3603—Science, Protection, and Management of Aquatic Environments (3 cr)
- EEB 4014—Ecology of Vegetation (3 cr)
- EEB 4016W—Ecological Biogeography, WI (3 cr)
- EEB 4609W—Ecosystem Ecology, WI (3 cr)
- ESPM 3101—Conservation of Plant Biodiversity (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, WI (3 cr)
- FR 3104—Forest Ecology (4 cr)
- FR 3114—Hydrology and Watershed Management (3 cr)
- FR 3203—Forest Fire and Disturbance Ecology (3 cr)
- FR 3501—Arboriculture: Selection and Maintenance of Trees (3 cr)
- FR 5153—Forest and Wetland Hydrology (3 cr)
- FW 5603W—Habitats and Regulation of Wildlife, WI (3 cr)
- GEO 3002—Climate Change and Human History, ENV (3 cr)
- GEO 3003—Geohazards (3 cr)
- GEO 3004—Water and Society (3 cr)
- GEO 3005—Earth Resources (3 cr)
- GEO 3401—Geochronology and Earth History (3 cr)
- GEO 4631W—Earth Systems: Geosphere/Biosphere Interactions, WI (3 cr)
- GEO 4701—Geomorphology (3–4 cr)
- GEO 4703—Glacial Geology (4 cr)
- GEO 5108—Principles of Environmental Geology (3 cr)
- GEOG 3355—Environmental Quality (3 cr)
- GEOG 3401—Geography of Environmental Systems and Global Change, ENV (4 cr)
- GEOG 3441—Quaternary Landscape Evolution (3 cr)
- HORT 5071—Restoration and Reclamation Ecology (4 cr)
- LA 5574—Identification of Minnesota Flora (3 cr)
- PBIO 4321—Minnesota Flora (3 cr)
- SOIL 5515—Soil Genesis and Landscape Relations (3 cr)
- SOIL 5555—Wetland Soils (3 cr)
- URBS 3751—Understanding the Urban Environment, ENV (3 cr)

Landscape Planning—Social and Cultural Systems

GEOG 3371W—Cities, Citizens, and Communities, DSJ, WI (4 cr)
 GEOG 3605W—Geographical Perspectives on Planning, WI (4 cr)

Landscape Design Sub-plan

The design track prepares students for a career in the design of sustainable landscapes 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**Landscape Design—Ecosystem Pattern and Process**

HORT 1015—Woody and Herbaceous Plants (4 cr)
 HORT 3005W—Environmental Effects on Horticultural Crops, WI (4 cr)
 HORT 4061W—Turfgrass Management, WI (3 cr)
 MATH 1031—College Algebra and Probability, MATH (3 cr)
 or MATH 1142—Short Calculus (4 cr)
 CHEM 1015—Introductory Chemistry: Lecture (3 cr)
 CHEM 1017—Introductory Chemistry: Laboratory (1 cr)

Landscape Design—Social and Cultural Systems

APEC 1101—Principles of Microeconomics (3 cr)
 MGMT 3010—Introduction to Entrepreneurship (4 cr)

Landscape Design and Planning Minor**Landscape Architecture**

- Required credits in this minor: 21.

The landscape design and planning minor introduces students to the history, theory, and practice of landscape design and planning at various geographic scales and in diverse settings. Landscape design and planning focuses on the creation of livable communities that sustain ecological function, fulfill human aspirations for community development, public health, and safety, and are artistically evocative and meaningful.

Minor 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.

Required Courses

LA 1401—The Designed Environment (3 cr)
 LA 3001—Understanding and Creating Landscape Space (3 cr)
 LA 3003—Case Studies in Sustainable Landscape Planning and Design (3 cr)
 LA 3413—Introduction to Landscape Architectural History, HIS, GP (3 cr)

Minor Electives

Take 9 or more credit(s) from the following:

ARCH 3711W—Environmental Design and the Sociocultural Context, C/PE, WI (3 cr)
 EEB 3001—Ecology and Society, ENV (3 cr)
 ESPM 3108—Ecology of Managed Systems, ENV (3 cr)
 LA 1201—Learning from the Landscape, AH, DSJ (3 cr)
 LA 1301—Introduction to Landscape Architecture Drawing, AH (3 cr)
 LA 2301—Advanced Representation for Environmental Design (3 cr)
 LA 2302—Computer-Aided Representation for Environmental Design (3 cr)
 LA 3002—Informants of Creating Landscape Space (3 cr)
 LA 3004—Regional Landscape Planning (3 cr)
 LA 3204—Holistic Landscape Ecology and Bioregional Practice (3 cr)

LA 3501—Environmental Design and Its Biological and Physical Context, ENV (3 cr)
 LA 3514—Making the Mississippi, CIV (3 cr)
 LA 3571—Landscape Construction: Site Systems and Engineering (3 cr)
 LA 4001—Sustainable Landscape Design and Planning Practices (3 cr)
 LA 4002—Implementation of Sustainable Landscape Design and Planning Practices (3 cr)
 LA 4755—Infrastructure, Natural Systems, and Space of Inhabited Landscapes, TS (3 cr)
 LA 8302—Professional Practice (3 cr)

Retail Merchandising B.S.**Design, Housing, and Apparel—Retail Merchandising**

- Required credits to graduate with this degree: 120.
- Required credits within the major: 89 to 100.

The retail merchandising program offers a wide range of educational and career opportunities, including visits to international retailers, travel to foreign and domestic retail centers, and professional experiences such as study abroad and internships with national and international retailers. Program graduates begin their careers in store or corporate environments. Entry-level positions include merchandising, marketing, product development, distribution, store management, buying, advertising, sales promotion, and human resources.

Admission Requirements

Admission is competitive and space is limited.

For information about University of Minnesota admission requirements, visit the [Office of Admissions website](#).

Program Requirements

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

Design Courses

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

Retail Merchandising Courses

RM 1201—Clothing Design, Merchandising, and the Consumer, CIV (3 cr)
 RM 4216—Retail Promotion and Consumer Decision Making (4 cr)
 RM 2215—Multichannel Retailing (3 cr)
 RM 3201—Strategic Career Planning (1 cr)
 RM 3242—Retail Buying (3 cr)
 RM 3243—Visual Merchandising (3 cr)
 RM 4196—Internship in Retail Merchandising (1–4 cr)
 RM 4217—International Retail Markets, GP (3 cr)

Business Courses

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)
 MKTG 3001—Principles of Marketing (3 cr)
 MKTG 3010—Marketing Research (4 cr)
 PSTL 1571—Computer Literacy and Problem Solving (4 cr)
 ACCT 2050—Introduction to Financial Reporting (4 cr)
 or APEC 1251—Principles of Accounting (3 cr)
 ECON 1101—Principles of Microeconomics, SOCS (4 cr)
 or APEC 1101—Principles of Microeconomics (3 cr)
 ECON 1102—Principles of Macroeconomics, IP, SSCI (4 cr)
 or APEC 1102—Principles of Macroeconomics, IP, SSCI (3 cr)
 PSY 1001—Introduction to Psychology, SSCI (4 cr)
 or PSTL 1281—Principles of Psychology, SOCS (4 cr)

OMS 2550—Business Statistics: Data Sources, Presentation, and Analysis (4 cr)
or SOC 3811—Basic Social Statistics, MATH (4 cr)
or STAT 3011—Introduction to Statistical Analysis, MATH (4 cr)
or STAT 3022—Data Analysis (4 cr)

Communication Courses

COMM 1101—Introduction to Public Speaking (3 cr)
or PSTL 1461—Multicultural Perspectives in Public Speaking (3 cr)
WRIT 3562W—Technical and Professional Writing, WI (4 cr)
or ENGL 3027W—The Essay, WI (4 cr)

Program Sub-plans

Students are required to complete one of the following sub-plans. (Note for the Twin Cities and Morris campuses: The honors sub-plan does not meet this requirement. Honors students are required to complete one sub-plan plus the honors sub-plan. Please see an adviser if no honors sub-plan is listed for the program.)

Honors (UHP) Sub-plan

Students admitted to the University Honors Program (UHP) must fulfill UHP requirements in addition to degree program requirements. Honors courses used to fulfill degree program requirements will also fulfill UHP requirements. Current departmental honors course offerings are listed at www.honors.umn.edu/academics/curriculum/dept_courses_current.html.

Honors students complete an honors thesis project in the final year, most often in conjunction with an honors thesis course, or with an honors directed studies or honors directed research course. Students select honors courses and plan for a thesis project in consultation with their UHP adviser and their departmental faculty adviser.

Retail Merchandising General Emphasis Sub-plan

Required Courses for the Sub-plan

Merchandising Advanced Courses

RM 4247—Advanced Buying and Sourcing (3 cr)
RM 4117W—Retail Environments and Human Behavior, WI (3 cr)

Business Advanced Course

MGMT 3010—Introduction to Entrepreneurship (4 cr)
or MGMT 3040—Understanding the International Environment of Firms: International Business (2 cr)
or MGMT 4002—Managerial Psychology (4 cr)
or MKTG 4030—Sales Management (4 cr)
or MKTG 4080W—Marketing Strategy, WI (4 cr)
or RM 3196—Field Study: National or International (1–4 cr)

Retail Merchandising Apparel Emphasis Sub-plan

Required Courses for the Sub-plan

Advanced Retail Merchandising Courses

ADES 2213—Textile Analysis (4 cr)
ADES 2214—Softlines Analysis (3 cr)
RM 4212W—Dress, Society, and Culture, WI (3 cr)
ADES 4215—Product Development: Softlines (4 cr)
ADES 3217—Fashion: Trends and Communication (3 cr)
or ADES 4121—History of Costume (4 cr)
or RM 3196—Field Study: National or International (1–4 cr)

Retail Merchandising Minor

Design, Housing, and Apparel—Retail Merchandising

- Required credits in this minor: 15 to 17.

Minors in retail merchandising are introduced to basic merchandising principles. The minor provides the opportunity to explore several facets of the retail industry, including retail buying, visual merchandising, and multichannel retailing. Outstanding opportunities are provided students to meet minor requirements including travel to domestic and international market centers.

Minor Requirements

Minor Courses

RM 1201—Clothing Design, Merchandising, and the Consumer, CIV (3 cr)
RM 2215—Multichannel Retailing (3 cr)
Take 3 or more course(s) from the following:
RM 4216—Retail Promotion and Consumer Decision Making (4 cr)
RM 3196—Field Study: National or International (1–4 cr)
RM 3242—Retail Buying (3 cr)
RM 3243—Visual Merchandising (3 cr)
RM 4117W—Retail Environments and Human Behavior, WI (3 cr)
RM 4217—International Retail Markets, GP (3 cr)
RM 4247—Advanced Buying and Sourcing (3 cr)