College of Human Ecology

This is the College of Human Ecology section of the 1999-2000 Undergraduate Catalog of the University of Minnesota.

Admission .................................................................................................................. 110
Degrees/Majors .......................................................................................................... 110
Minors ......................................................................................................................... 110
Honors ......................................................................................................................... 110
Policies ........................................................................................................................ 111
Graduation Requirements ................................................................................ 111
Scholarships ............................................................................................................. 111
International Programs ..................................................................................... 111
Advising ...................................................................................................................... 111
Career Information ............................................................................................... 111
Student Organizations ........................................................................................ 111
Directory ..................................................................................................................... 112
Degree Programs ................................................................................................... 113
  Clothing Design ...................................................................................................... 113
  Family Social Science .......................................................................................... 113
  Food Science ......................................................................................................... 114
  Graphic Design ..................................................................................................... 115
  Housing Studies ................................................................................................... 115
  Interior Design ....................................................................................................... 116
  Nutrition .................................................................................................................. 117
  Retail Merchandising ............................................................................................ 118
College of Human Ecology

The College of Human Ecology (CHE), celebrating 100 years of excellence, offers eight undergraduate programs that examine the interaction of humans and their environments—the natural, designed, and social environments. CHE studies families, communities, shelter, interior design, graphic communication, clothing, retailing and consumer behavior, nutrition, and food science. The college offers top ranked degree programs for undergraduates (1,000 students) and graduates (350 students).

CHE builds on the strengths of four units: Design, Housing, and Apparel; Family Social Science; Food Science and Nutrition; and School of Social Work. The undergraduate programs are professionally-focused and guided by faculty who make working with undergraduate students a top priority. The faculty have close working relationships with industry professionals from the community who collaborate on research and outreach, participate in special programming, and serve as a network for students seeking internships and post-graduation opportunities. All CHE programs require or offer internships. Students are encouraged to take advantage of the college’s significant scholarship endowment as well as apply for special grants that promote professional-development experiences.

McNeal Hall, on the St. Paul campus, houses the administrative offices and provides outstanding facilities for CHE’s teaching and research programs. All department offices are located on the St. Paul campus, except for the School of Social Work; it is located on the Minneapolis campus but will relocate to St. Paul during the 1999-2000 academic year. All locations provide access and facilities for persons with disabilities.

The Goldstein Museum, a nationally recognized design museum, was founded in 1976 to support the curriculum of the Department of Design, Housing, and Apparel. The museum collects and exhibits the taken-for-granted art closest to people’s lives: clothing, textiles, and decorative and graphic arts, with an emphasis on objects of the late-nineteenth and twentieth centuries. Students are involved in all aspects of museum operations, from collections care to exhibition development and installation.

Admission

All applicants to CHE must have completed three years of high school mathematics, including one year each of elementary algebra, geometry, and intermediate algebra.

Freshmen—Refer to the University of Minnesota-Twin Cities undergraduate application booklet for freshman admission requirements.

Transfer Students—Complete high school preparation requirements (if post-1986 high school graduate), including one year each of algebra, geometry, and intermediate algebra. Complete high school intermediate algebra or equivalent regardless of high school graduation date. Have an overall GPA of at least 2.50.

Transfer Advising—Students who wish to transfer to CHE may contact a transfer specialist by calling (612) 624-1725. For more information, see “Admissions” in the General Information section, or see “Degree Programs” in CHE for major-specific admission requirements.

Visiting CHE

CHE encourages prospective students to meet with an adviser for more information about the college’s programs; tour the facilities, including the state-of-the-art computer lab and design studios; and discuss internship and career opportunities. To arrange a visit, students should call (612) 624-1717. Visit the CHE Web site at <www.che.umn.edu/>.

Degrees/Majors

The major programs in CHE all lead to the bachelor of science degree.

CHE is organized into five major departments and schools that provide the courses and faculty for the college’s academic and professional programs:

Department of Design, Housing, and Apparel
- Clothing Design
- Graphic Design
- Housing Studies
- Interior Design
- Retail Merchandising

Department of Family Social Science
- Family Social Science

Department of Food Science and Nutrition
- Food Science
- Nutrition

School of Social Work
- Postbaccalaureate degrees only

Department of Work, Community, and Family Education
- Postbaccalaureate degrees only

Graduate degrees—Through the Graduate School, the master of arts, master of fine arts, master of science, master of social work, and doctor of philosophy degrees are offered in design, housing, and apparel; family social science; food science; nutrition; and social work. For information about these programs, students should consult the Graduate School Catalog or call (612) 624-3014.

Minors

CHE offers two minors: food science and nutrition. Both are explained in the following Degree Programs section.

Honors

The lower division honors program provides freshmen and sophomores with advanced learning opportunities through more intensive interaction with faculty and other high-ability students. Lower division honors students complete two honors options and the First Year Honors Colloquium and receive a certificate of completion at the annual CHE honors and awards program.

The upper division honors program offers juniors and seniors (60+ credits) additional opportunities to achieve their academic and professional goals. Upper division students complete two honors options and carry out a capstone project, an in-depth exploration of a topic specifically related to their major. Students successfully
completing the upper division honors program are eligible to graduate with Latin honors (cum laude, magna cum laude, or summa cum laude).

For more information, students should contact the CHE honors adviser, 32 McNeal Hall (612/624-1717).

Policies

CHE Academic Progress—CHE students are held to the University’s academic progress standards. See the Policies section of this catalog. In addition, studio major programs in CHE require students to maintain a 2.50 GPA in order to go through portfolio review and move from pre-major to major status. If a student’s GPA falls below 2.50, the student is notified and required to meet with an academic adviser each term before registering.

Credit Load—To carry more than 20 credits, students must have a B (3.00) average overall and must obtain permission from the Student Scholastic Standing Committee, 32 McNeal Hall.

Petitioning—To request permission to depart from requirements and procedures, students must complete a petition form available at the college office, 32 McNeal Hall. Students should meet with their adviser to discuss the petition and to obtain his or her signature. The petition and a transcript are then submitted to the college office for a decision. The decision is mailed to the student.

Student Scholastic Standing Committee—The Student Scholastic Standing Committee interprets and enforces faculty policy concerning academic regulations and requirements. The committee is also authorized to consider alternative ways of meeting those requirements when permission to depart from normal procedures is requested. For more information, students should call (612) 624-4244.

CHE Appeals Procedures—When students have problems or questions, advisers, the program chairpersons, the department heads, and the Student Services staff in the college office are good sources of information and support. Students who question some aspect of their college program may take their concern to an adviser, department program committee, or department head. The college office (612/624-9764) provides information about appeals procedures.

Graduation Requirements

University graduation requirements are listed in the Policies section.

Commencement—CHE holds official commencement exercises once a year in the spring. Students who have applied to graduate are provided information about commencement.

Scholarships

CHE scholarships are awarded to new and continuing students based on academic performance, leadership and service, and financial need. Students are encouraged to apply early for scholarships. Also available through CHE are travel study grants and awards for undergraduate research programs and special development opportunities. Scholarship information, deadlines, and applications are available in the college office, 32 McNeal Hall, 1985 Buford Avenue, St. Paul, MN 55108 (612/625-3726) or <www.che.umn.edu/ss/ >.

International Programs

CHE encourages students to participate in an international study experience as part of their degree program. Several specialized programs are available, including a three-week summer interior design program in Europe (offered even-numbered years) and an exchange program with DeMontfort University in Leicester, England sponsored by the Department of Design, Housing, and Apparel. (See also “Special Learning Opportunities” in the General Information section.)

Advising

Upon being admitted to CHE, students are assigned an academic adviser, usually during New Student Orientation.

Design, Housing, and Apparel Students—For adviser information or to make an appointment, students should call (612) 674-9700 (including pre-clothing design, pre-graphic design, pre-interior design, clothing design, graphic design, interior design, housing studies, retail merchandising).

Family Social Science Students—For adviser information or to make an appointment, students should call (612) 625-2252 or 625-1282.

Food Science and Nutrition Students—For adviser information or to make an appointment, students should call (612) 624-6753.

The Student Services office in 32 McNeal Hall provides assistance with college-wide procedures and policies to currently enrolled students. To make an appointment, students should contact the college office, 32 McNeal Hall, (612) 624-1717.

Career Information

The Career Services Center, 68 McNeal Hall (612/624-6762), offers individual counseling, classes, and workshops, and maintains a Career Resource Library to help students clarify career goals, secure internships, explore overseas study/travel, and plan for a proactive job search. Staff members teach career planning courses and are available to discuss career choices and employment opportunities. Full- and part-time positions are posted in departments, on the CHE JOBLINE, and in the Career Services Center. During the academic year, the center sponsors programs dealing with various career planning topics.

An important part of the college experience is participating in an internship. Some CHE programs require students to participate in a planned internship experience and other programs strongly encourage it. Internship credits vary, depending on program area. The Career Services Center acts as a clearinghouse for internship information.

For questions concerning career planning, internships, and job opportunities, call the Career Services Center (612/624-6762).

Student Organizations

Human Ecology Ambassador Student Board (HESAB)—HESAB is an all college organization created to promote, initiate, and coordinate student organization activities; welcome new students; and serve as a liaison between students and faculty in achieving college goals.
HESAB sponsors and organizes the Human Ecology Student Hospitality Room during freshman orientation. HESAB has representation in other campus-wide student organizations and college committees.

Student Participation on College Committees—Every standing committee and every program committee in CHE has two or more student members on its roster.

Other CHE Student Organizations—Many of the undergraduate programs sponsor student organizations. Honor societies periodically invite selected students to join. Faculty adviser and officer names for the following organizations are available at the front desk, 32 McNeal Hall (612/624-1717).

Student and Professional Organizations
• American Society of Interior Designers
• Clothing Design Club
• Family Social Science Roundtable
• Food Science and Nutrition Club
• Graphic Design Club
• Housing Organization for University Students
• Human Ecology Student Ambassador Board
• Illuminating Engineering Society
• International Interior Design Association
• Minnesota Collegiate Retail Association
• Student Organization of Nutrition and Dietetics

Honor Societies
• Phi Upsilon Omicron

St. Paul Campus Board of Colleges—This board directs and coordinates student activities and encourages student leadership throughout the St. Paul campus. Its membership is drawn from all major areas of the colleges of Agricultural, Food, and Environmental Sciences; Biological Sciences; Human Ecology; Natural Resources; and Veterinary Medicine.

The board cooperates with the Minnesota Student Association and the Assembly Committee on Student Affairs. It brings questions from the student body to the administration of its member colleges and discusses and reaches decisions on matters of general interest. CHE students may file for election to the board. Interested students should inquire at the Student Affairs office, 197 Coffey Hall (612/625-6274).

St. Paul Student Center Board of Governors—Students representing the academic units on the St. Paul campus are elected to the Board of Governors, which formulates policy for the operation of the St. Paul Student Center and establishes its budget. For information about the Student Center, its operation, and its various planning and programming committees, inquire at the information desk, 42 St. Paul Student Center.

Directory
(area code 612)

CHE Administration
32 McNeal Hall
1985 Buford Avenue
St. Paul, MN 55108
624-1717

Admissions/Prospective Student Services
624-1717

Career Services Center
624-6762

Student Services
624-4244

Transfer Credits
624-1725

Departments
Design, Housing, and Apparel
240 McNeal Hall
624-9700

Family Social Science
290 McNeal Hall
625-1900

Food Science and Nutrition
223 Food Science and Nutrition
624-1290

School of Social Work
400 Ford Hall
624-5888

Work, Community, and Family Education
325 Vocational and Technical Education Building
624-3010
College of Human Ecology

Clothing Design

Department of Design, Housing, and Apparel

B.S.

The clothing design program develops students’ understanding of the textile and clothing product development process including design, production, and marketing. Students are challenged to integrate knowledge of the product with consumer needs and business constraints.

The program emphasizes and integrates creative thinking and technical skill. Students become proficient in manual and computer methods of pattern development and implement apparel structuring methods appropriate for custom design or industry production. Courses provide coverage of costume history, social and cultural meanings of apparel, the textile and apparel consumer, and aesthetics. A required internship ensures that students gain professional experience.

Students entering the program should have clothing construction/assembly competence and a working knowledge of microcomputers and software. Students are 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, theatre and film design, wearable art, and custom design.

Admission Requirements—Freshmen and transfer students are initially admitted as pre-clothing design majors.

After being admitted to CHE, students must meet the following criteria to achieve full major status in the clothing design program:

• Demonstrate competence in basic clothing construction skills by either passing the DHA sewing proficiency examination, successfully completing DHA 1221, or successfully completing an approved clothing construction course.

• Complete DHA 1101, 1201, 1311, 1312, and 2221.

• Maintain overall GPA of at least 2.50.

• Receive positive assessment of design work through portfolio review.

Degree Requirements

To complete the degree, students must complete at least 120 credits, including 84 credits in the major. Students must complete the University’s liberal education requirements. Students must maintain an overall GPA of at least 2.00, including a grade of C or better in all professional courses in the major.

Required Courses

Required courses must be taken A-F with a minimum grade of C.

DHA 1101—Introduction to Design Thinking (4 cr)
DHA 1201—Clothing Design, Merchandising, and the Consumer (3 cr)
DHA 1311—Foundations I: Drawing and Design in Two and Three Dimensions (4 cr)
DHA 1312—Foundations II: Color and Design in Two and Three Dimensions (4 cr)
DHA 2213—Textile Analysis (4 cr)
DHA 2214—Softlines Analysis (3 cr)
DHA 2221—Clothing Design Studio I (4 cr)
DHA 2222—Clothing Design Studio II (4 cr)
DHA 3217—Aesthetics of Clothing (3 cr)
DHA 3223—Clothing Design Studio III (4 cr)
DHA 3224—Clothing Design Studio IV (4 cr)
DHA 3312—Color and Form in Surface Design (3 cr)
DHA 4121—History of Costume (4 cr)
DHA 4196—Internship in DHA (3 cr)
DHA 4212—Dress, Society, and Culture (4 cr)
DHA 4215—Quality Assurance: Softlines (4 cr)
DHA 4225—Clothing Design Studio V (4 cr)
DHA 4226—Clothing Design Studio VI (4 cr)
DHA 4330—Surface Fabric Design Workshop (4 cr)
or DHA 4340 Woven and Non-Woven Fiber Design Workshop (4 cr)
DHA 5216—Textile and Apparel Consumer (3 cr)
or DHA 4217—International Developments in Textiles and Apparel (4 cr)
Rhet 1101—Writing to Inform, Convince, and Persuade (4 cr)
Rhet 1223—Oral Presentations in Professional Settings (3 cr)
Rhet 3562—Technical and Professional Writing (3 cr)

Final Project

An internship is to be completed the last year of the student’s program.

Family Social Science

Department of Family Social Science

B.S.

Family social science is a multidisciplinary major for those who are interested in helping people, counseling, and understanding human relationships. The major prepares its graduates for careers in working with individuals, families, or systems in human services.
Students work with a faculty adviser to design a family-oriented area of study that focuses on a special population, issue, or complementary discipline. The major is enhanced by a required internship in the community related to students’ specific program and career goals. Qualified graduates may continue their education through graduate study in family social science, child and human development, social work, or other allied health disciplines.

Admission Requirements—The program admits freshmen and transfer students.

Degree Requirements
To complete the degree, students must complete at least 120 credits, including 74 credits in the major. Students must also complete the University’s liberal education requirements. All required courses must be taken A-F and completed with a grade of at least C. Students must maintain an overall GPA of at least 2.00.

Required Courses
Preparatory Requirements
One economics course (3-4 cr)
One statistics course (3-4 cr)
Choose one course from one of the following areas (3-4 cr): child psychology, human development, psychology, sociological science, social work, anthropology, FSoS 1101
Rhet 1101—Writing to Inform, Convince, and Persuade (4 cr)
Rhet 1223—Oral Presentations in Professional Settings (3 cr)
Rhet 3562—Technical and Professional Writing (3 cr)

Major Core Studies Requirements
FSoS 2101—Preparation for Working with Families (2 cr)
FSoS 3101—Personal and Family Finances (3 cr)
FSoS 3102—Family Systems and Diversity (3 cr)
FSoS 3103—Family Resource Management (3 cr)
FSoS 4101—Sexuality and Gender in Families and Close Relationships (3 cr)
FSoS 4102—Global and Diverse Families (3 cr)
FSoS 4103—Family Policy (3 cr)
FSoS 4104—Family Psychology (3 cr)
FSoS 4105—Methods in Family Research (3 cr)
FSoS 4296—Field Study: Working with Families (4 cr)
or FSoS 4294—Research Internship (2 cr) (4 cr required)
Select two additional courses from the following: FSoS 4150, FSoS 4152, FSoS 4153, FSoS 4154, FSoS 4155, FSoS 4156

Applied area of study
Seven courses/21 cr of 3xxx and 4xxx courses.

Students design a family oriented application area in consultation with their adviser. The area may focus on a population such as children, adolescents, women, gays, lesbians, or refugees; an issue such as family economics, gerontology, alcohol and substance abuse, health, sexuality, human rights, the military, war, or violence; a complementary discipline such as social psychology, public health, education, sociology, or social work; or a skills area such as family research, advocacy, or policy development.

Students considering graduate school are strongly encouraged to design a research-oriented skills application area with higher level mathematics, statistics, and research experiences. An academic plan for the applied area of study must be approved by the program chair.

Final Project
Students are required to participate in a community internship that is consonant with their program and career goals. Students who are considering graduate school are strongly encouraged to participate in a faculty-directed research internship that augments their research-oriented skills.

Food Science
B.S.
Food scientists apply the principles of disciplines such as chemistry, physics, and microbiology to food processing, preservation, and product development. The food science program provides students with a basic foundation in calculus, chemistry, physics, communications, statistics, and biology. Professional courses center around food engineering/processing, food chemistry, food microbiology, and food quality.

Degree Requirements
To complete the degree, students must complete at least 120 credits, including 91 credits in the major. Students must also complete the University’s liberal education requirements and maintain an overall GPA of at least 2.00. All required courses must be taken A-F and completed with a grade of at least C.

Required Courses
Foundation Courses
BioC 3021—Biochemistry (3 cr)
or BioC 4331—Biochemistry I (4 cr)
and BioC 4332—Biochemistry II (4 cr)
Biol 1009—General Biology (4 cr)
Chem 1021—Chemical Principles I (4 cr)
Chem 1022—Chemical Principles II (4 cr)
Chem 2301—Organic Chemistry I (3 cr)
Chem 2302—Organic Chemistry II (3 cr)
Math 1271—Calculus I (4 cr)
Math 1272—Calculus II (4 cr)
Rhet 1101—Writing to Inform, Convince, and Persuade (4 cr)
Rhet 1223—Oral Presentations in Professional Settings (3 cr)
Rhet 3562—Technical and Professional Writing (3 cr)
Stat 3011—Introduction to Statistical Analysis (4 cr)
Pick one of the following lab courses: BioC 4025, Chem 2111, Chem 2311, FScN 4612
Pick one of the following microbiology courses: MicB 2032, MicB 3301, VPB 2032
Pick one of the following physics series: Phys 1101/1102, Phys 1201/1202, Phys 1301/1302
Note: Phys 1301 and 1302 are recommended.

Professional Courses
FScN 1102—Food: Safety, Risks, and Technology (3 cr)
FScN 1112—Principles of Nutrition (3 cr)
FScN 3102—Introduction to Food Science (3 cr)
FScN 4111—Food Chemistry (3 cr)
FScN 4121—Food Microbiology and Fermentations (3 cr)
FScN 4122—Lab in Microbiology and Fermentations (2 cr)
FScN 4131—Food Quality (3 cr)
FScN 4312—Food Analysis (4 cr)
FScN 4331—Principles of Food Engineering (4 cr)
FScN 4332—Food Processing Operations (3 cr)
One of the following courses with a Capstone component: FScN 4341, FScN 4342, FScN 4343, FScN 4344

Minor Requirements
Complete at least 20 credits from the following list:
FScN 1102, FScN 3102, FScN 4111, FScN 4121, FScN 4122, FScN 4131, FScN 4312, FScN 4331, FScN 4332
Graphic Design

Department of Design, Housing, and Apparel

B.S.
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 broad-based.

Admission Requirements—Freshmen and transfer students are initially admitted as pre-graphic design majors.

After being admitted to CHE, pre-graphic design students must meet the following criteria to achieve full major status in the graphic design program—complete DHA 1101, DHA 1311, DHA 1312, and DHA 1315. Maintain an overall GPA of at least 2.50. Receive positive assessment of design work through portfolio review.

Degree Requirements
To complete the degree, students must complete at least 120 credits, including 94 credits in the major. Students must also complete the University’s liberal education requirements. All required courses must be taken A-F and completed with a grade of at least C. Students must maintain an overall GPA of at least 2.00.

Required Courses
- One course from each of the following areas: art history; history; photography; and business or economics or marketing
- DHA 1101—Introduction to Design Thinking (4 cr)
- DHA 1311—Foundations I: Drawing and Design in Two and Three Dimensions (4 cr)
- DHA 1312—Foundations II: Color Design in Two and Three Dimensions (4 cr)
- DHA 1315—Foundations III: The Graphic Studio (4 cr)
- DHA 2311—Drawing and Illustration (3 cr)
- DHA 2334—Computer Applications I: Digital Composition for Design (3 cr)
- DHA 2345—Typographic Design (3 cr)
- DHA 2351—Graphic Design I: Text and Image (3 cr)
- DHA 2352—Graphic Design II: Identity and Symbols (3 cr)
- DHA 2353—Graphic Design III: Packaging and Display (3 cr)
- DHA 4334—Computer Applications II: Design for the Digital Environment (3 cr)
- DHA 4345—Advanced Typographic Design (4 cr)
- DHA 4350—Design Process: Materials (3 cr)
- DHA 4354—Graphic Design IV: Integrative Campaign (4 cr)
- DHA 4355—Graphic Design Portfolio (2 cr)
- DHA 4365—Graphic Design Senior Seminar (4 cr)
- Rhet 1101—Writing to Inform, Convince, and Persuade (4 cr)
- Rhet 1223—Oral Presentations in Professional Settings (3 cr)

Select two courses from the following:
- DHA 4384—Interactive Media (3 cr)
- DHA 5381—Digital Illustration (3 cr)
- DHA 5382—Sound and Video (3 cr)
- DHA 5383—Modeling and Animation (3 cr)
- DHA 5385—Internet-Based Media (3 cr)

For additional courses, see your adviser.

Housing Studies

Department of Design, Housing, and Apparel

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

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

Degree Requirements
To complete the degree, students must complete at least 120 credits, including 75 credits in the major. Students must also complete the University’s liberal education requirements. All required courses must be taken A-F and completed with a grade of at least C. Students must maintain an overall GPA of at least 2.00.

Required Courses
- DHA 1101—Introduction to Design Thinking (4 cr)
- DHA 2401—Introduction to Housing (3 cr)
- DHA 2402—Residential Technology (3 cr)
- DHA 2463—Housing and Community (3 cr)
- DHA 4196—Internship in DHA (2 cr)
- DHA 4461—Multifamily Housing Management (4 cr)
- DHA 4465—Housing in World Perspective (3 cr)
- or DHA 5484—Rural Housing Issues (3 cr)
- DHA 5463—Housing Policy (3 cr)
- DHA 5467—Housing and the Social Environment (3 cr)
- Rhet 1101—Writing to Inform, Convince, and Persuade (4 cr)
- Rhet 1223—Oral Presentations in Professional Settings (3 cr)

Select two courses from the following:
- DHA 4101—Introduction to Design Thinking (4 cr)
- DHA 4102—Residential Technology (3 cr)
- DHA 4103—Multifamily Housing Management (4 cr)
- DHA 4104—Housing in World Perspective (3 cr)
- or DHA 5105—Rural Housing Issues (3 cr)
- DHA 5106—Housing Policy (3 cr)
- DHA 5107—Housing and the Social Environment (3 cr)
- Rhet 1101—Writing to Inform, Convince, and Persuade (4 cr)
- Rhet 1223—Oral Presentations in Professional Settings (3 cr)
Minnesota.

program in
interior design
four-year accredited
program is the only
The interior design
program in
Minnesota.

Another program in
interior design
four-year accredited
program is the only
The interior design
program in
Minnesota.

Program in
interior design
four-year accredited
program is the only
The interior design
program in
Minnesota.

Areas of Concentration
All courses must be taken A-F and completed with a
grade of at least C. Each course may be used only once
to satisfy program requirements.

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

At least 20 credits from the following
ApEc 3311, ApEc 5581, Arch 5645, DHA 4482, DHA 5481, DHA 5484,
Econ 4623, FSoS 4103, Geog 3361, Geog 3371, Geog 3373, Geog
3605, Geog 5361, Geog 5371, Geog 5372 (PA 5202), Geog 5724,
PA 5002, PA 5004, PA 5013, PA 5211, PA 5212, Pol 1001, Rhet
4573, Rhet 52258, Soc 1001, Soc 3201, Soc 3211, Soc 3451,
Urth 1001, Urth 3001, Urth 3301, UrthS 3751, UrthS 5101

Housing Technology Concentration
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.

At least 20 credits from the following
Arch 3412, Arch 5671, Arch 5672, Arch 5673, ArtH 5546, CE 4101,
DHA 1601, DHA 1602, DHA 2612, DHA 2621, DHA 4482, DHA 5481,
Geog 5724, PubH 5110, PubH 5120, Rhet 4573, WPS 3332, WPS 4335

Management and Finance Concentration
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.

At least 20 credits from the following
ApEc 1101/Econ 1101, ApEc 1102/Econ 1102, ApEc 1251 or Acct 2050,
Arch 5645, Fina 3001, Fina 4241, BLaw 3058, DHA 4482, DHA
5481, Econ 3701, Econ 3801, Econ 4623, Geog 5361, Mgmt
3001, Mgmt 4002, Mktg 3001, Mktg 3010, Mktg 4040, Rhet
3266, Rhet 4165, Rhet 4573

Special Populations Concentration
Courses (or a minor) in areas such as sociology, social
work, gerontology, women’s studies, Afro-American
studies, American Indian studies, or Chicano studies
prepare students to work in housing-related programs
involving human relations, advocacy, and affirmative
action or to work in housing programs for low-income
families and for the elderly or disabled.

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

Option one—Complete an appropriate minor along with
additional credits in supporting courses. Under option
one, a concentration can be done in such minors as
African studies, Afro-American studies, Chicano studies,
East Asian studies, Latin American studies, Russian and
East European studies, Scandinavian studies, South and

Southwest Asian studies, West European studies,
women’s studies. For admission procedures and minor
requirements, contact the department offering the minor.
If option one is chosen, and the minor selected requires
fewer than 20 credits, additional supporting coursework
to total at least 20 credits must be completed. Supporting
coursework could include one or more of the following
subjects: social work, communication, anthropology,
economics, education, geography, language, mathematics,
political science, sociology, or statistics.

Option two—Concentrate on one or more special
populations for which no specific undergraduate minor is
offered. Under option two, a concentration can be based
on 20 credits of coursework:

(a) The elderly: DHA 5481, DHA 5484, FSoS 4154, Gero 5105, Kin
5385, PA 5412, Psy 5138, PubH 3001, PubH 5932, Rec 5241,
Rhet 4573, Rhet 5258, SW 2001, SW 5313, WoSt 4201
(b) Low income, minority, and single-parent populations: DHA 5484,
FSoS 3101, FSoS 3102, FSoS 4102, FSoS 4153, FSoS 4156, Geog 3375, Grop 5371, PA 3311, PA
5401, PA 5421, Pol 1001, PubH 3001, PubH 5932, Rhet 4573,
3501, SW 2001, SW 3051, SW 3011, SW 3203, SW 5101

Final Project
An internship of at least 300 hours in a situation related to
the student’s area of specialization is required.

Interior Design

Department of Design, Housing, and Apparel
B.S.

Interior designers solve problems about how people use
their spaces. Designers perform tasks such as space
planning, color specification, and building system
integration for homes, hospitals, offices, hotels, and other
spaces. The interior design program enables students to
acquire:

• an understanding of the relationship between the
  individual and the environment,
• a sense of the designer’s responsibility to society,
• a foundation in basic design,
• an understanding of functional and aesthetic needs,
• an understanding of historical styles and contemporary
  theories,
• technical knowledge and communication skills, and
• awareness of business and professional ethics.

The program is accredited by the Foundation for Interior
Design Education Research (FIDER).

Upon graduation, students may work in residential or
nonresidential design. Potential employers include
interior design firms, architectural firms, health care
institutions, and corporations.

Admission Requirements—Freshmen and transfer
students are initially admitted into the program as pre-
interior design majors.

After being admitted to CHE, pre-interior design students
must meet the following criteria to achieve full major
status in the interior design program: Complete freshman
composition and at least one additional liberal education
course. Complete DHA 1101, 1311, 1312, 1601, and
Maintain overall GPA of at least 2.50. Receive
positive assessment of design work through portfolio
review.
Degree Requirements
To complete the degree, students must complete at least 125 credits, including 102 credits in the major. Students must also complete the University’s liberal education requirements. All required courses must be taken A-F and completed with a grade of at least C. Students must maintain an overall GPA of at least 2.00. Finally, students must complete a 400 hour internship the summer after the third year.

Required Courses
Arch 3411—Architectural History to 1750 (3 cr)
or Arch 3412—Architectural History since 1750 (3 cr)
DHA 1101—Introduction to Design Thinking (4 cr)
DHA 1311—Foundations I: Drawing and Design in Two and Three Dimensions (4 cr)
DHA 1312—Foundations II: Color and Design in Two and Three Dimensions (4 cr)
DHA 1601—Interior Design Studio I (4 cr)
DHA 1602—Interior Design Studio II (4 cr)
DHA 2213—Textile Analysis (4 cr)
DHA 2402—Residential Technology (3 cr)
DHA 2603—Interior Design Studio III (4 cr)
DHA 2604—Interior Design Studio IV (4 cr)
DHA 2612—Environmental Systems and Life Safety (4 cr)
DHA 2613—Lighting Design and Building Systems (4 cr)
DHA 2621—Computer Aided Design: Interior Design (4 cr)
DHA 3605—Interior Design Studio V (4 cr)
DHA 3606—Interior Design Studio VI (4 cr)
DHA 3614—Interior Design Ethics and Professional Practice (4 cr)
DHA 4161—History of Interiors and Furnishings: Ancient to 1750 (4 cr)
DHA 4162—History of Interiors and Furnishings: 1750 to Present (4 cr)
DHA 4607—Interior Design Studio VII (4 cr)
DHA 4608—Interior Design Thesis (6 cr)
Econ 1101/ApEc 1101—Principles of Microeconomics (3-4 cr)
Mgmt 3001—Fundamentals of Management (2 cr)
Mktg 3001—Principles of Marketing (2 cr)
Psy 1001—Introduction to Psychology (4 cr)
Rhet 1101—Writing to Inform, Convince, and Persuade (4 cr)
Rhet 1223—Oral Presentations in Professional Settings (3 cr)
Rhet 3562—Technical and Professional Writing (3 cr)

Recommended courses if elective credit is needed to total 125 credits required for graduation:
DHA 5111—History of Decorative Arts (4 cr)
DHA 5481—Interior Design Ethics and Professional Practice (4 cr)
DHA 5621—Nutrition and Metabolism (4 cr)

Nutrition
B.S.
The nutrition major explores how nutrients and the foods from which they are derived aid the body in health, growth, and development. With the major national and international concern for how food and nutrition affect health and disease, there are many career opportunities for registered dietitians and nutritionists. Students choose one of three options; nutrition, the coordinated program in dietetics, or nutrition science.

Students expecting to apply to either the Coordinated Program in Dietetics, an internship, or a graduate school should maintain a GPA of at least 3.00. A cumulative GPA of at least 3.00 is highly recommended, and in the case of some graduate schools is required, for admission.

The Didactic Program in Dietetics (nutrition option) is currently granted approval status and the Coordinated Program in Dietetics is currently granted accreditation status by the Commission on Accreditation/Approval for Dietetics Education of The American Dietetic Association, 216 W. Jackson Blvd., Chicago, IL 60606-6995, (312) 899-4876.

Degree Requirements
To complete the degree, students must complete at least 120 credits, including required credits in the major. Students must also complete the University’s liberal education requirements and maintain an overall GPA of at least 2.00.

Required Courses for All Options
BioC 3021—Biochemistry (3 cr)
Biol 1009—General Biology (4 cr)
Chem 1021—Chemical Principles I (4 cr)
Chem 2022—Chemical Principles II (4 cr)
Chem 2301—Organic Chemistry I (3 cr)
FSn 1102—Food: Safety, Risks, and Technology (3 cr)
FSn 1112—Principles of Nutrition (3 cr)
FSn 3102—Introduction to Food Science (3 cr)
FSn 3612—Life Cycle Nutrition (3 cr)
FSn 4612—Human Nutrition (3 cr)
FSn 4612—Experimental Nutrition (2 cr)
FSn 5621—Nutrition and Metabolism (4 cr)
Phsl 3051—Human Physiology (4 cr)
Rhet 1101—Writing to Inform, Convince, and Persuade (4 cr)
Rhet 1223—Oral Presentations in Professional Settings (3 cr)
Rhet 3562—Technical and Professional Writing (3 cr)

Suggested Courses for the Nutrition Option
Chem 2301—Organic Chemistry I (3 cr)

Suggested Courses for the Coordinated Program in Dietetics
Chem 1021—Chemical Principles I (4 cr)
Chem 1022—Chemical Principles II (4 cr)

Nutrition
The nutrition option also referred to as the Didactic Program in Dietetics offers preparation in the basic sciences and liberal education, a background in food science, and a focus on human needs related to nutrition. Students identify several areas of interest and develop a varied portfolio of competence. Work experience in nutrition, elective courses, and extracurricular activities develop communication and leadership skills. Graduates of the program take positions in various food-related fields, including nutrition, industry, and community programs. Students who plan to become registered dietitians must meet the American Dietetic Association requirements. Graduates who have a cumulative GPA of 3.00, strong work experience in nutrition, and demonstrated leadership skills, and who are highly recommended, may apply for a postbaccalaureate dietetic internship.

Additional Courses
FSn 3614—Nutrition Education (2 cr)
FSn 3615—Sociocultural Aspects of Food, Nutrition, and Health (3 cr)
FSn 3731—Food Service Operations Management Lab (2 cr)
FSn 3732—Food Service Operations Management (3 cr)
FSn 4614—Community Nutrition (3 cr)
FSn 4665—Medical Nutrition Therapy I (3 cr)
FSn 4666—Medical Nutrition Therapy II (3 cr)
FSn 4732—Food and Nutrition Management (3 cr)
Math 1031—College Algebra and Probability (3 cr)
Mgmt 3001—Fundamentals of Management (2 cr)
Stat 3011—Introduction to Statistical Analysis (4 cr)

Choose one of the following:
FSn 4111—Food Chemistry (3 cr)
FSn 4121—Food Microbiology and Fermentations (3 cr)

Coordinated Program in Dietetics
Students can apply, before their junior year, to the University’s Coordinated Program in Dietetics and complete both the academic and professional experience requirements within two years.
The basic curriculum is similar to that specified under Required Courses for All Options on page 117, but also includes field experience courses in which didactic and clinical phases of instruction are coordinated. A detailed plan of the program may be obtained from the Department of Food Science and Nutrition. A limited number of students are admitted to the program each year. Minnesota law requires each student admitted to a supervised practice in dietetics to have a criminal background check conducted by the state of Minnesota. The dietetic program director arranges for the background check. Failure to pass the background check results in dismissal from the program.

Additional Courses
(Nutrition Option plus field experiences)
FScN 3614—Nutrition Education (2 cr)
FScN 3615—Sociocultural Aspects of Food, Nutrition, and Health (3 cr)
FScN 3662—Introduction to Dietetic Practice (2 cr)
FScN 3732—Food Service Operations Management (3 cr)
FScN 4614—Community Nutrition (3 cr)
FScN 4616—Medical Nutrition Therapy I (3 cr)
FScN 4666—Medical Nutrition Therapy II (3 cr)
FScN 4696—Field Experience: Medical Nutrition Therapy I (4 cr)
FScN 4732—Food and Nutrition Management (3 cr)
FScN 4776—Field Experience in Food and Nutrition Management (3 cr)
FScN 4896—Field Experience: Medical Nutrition Therapy II (3 cr)
FScN 4996—Field Experience: Medical Nutrition Therapy II (3 cr)
Math 1031—College Algebra and Probability (3 cr)
Mgmt 3001—Fundamentals of Management (2 cr)
Stat 3011—Introduction to Statistical Analysis (4 cr)

Choose one of the following:
FScN 4111—Food Chemistry (3 cr)
FScN 4121—Food Microbiology and Fermentations (3 cr)

Nutrition Science
The Nutrition Science option is for students planning to do graduate work in nutrition, related sciences, or professional programs such as medicine or dentistry.

Additional Courses
Biol 2012—General Zoology (4 cr) or an advanced biology course
Chem 2302—Organic Chemistry II (3 cr)
Chem 2311—Organic Chemistry Lab (3 cr)
FScN 4111—Food Chemistry (3 cr) or an advanced chemistry course
FScN 5622—Vitamin and Mineral Biochemistry (3 cr)
FScN 5623—Regulation of Energy Balance (2 cr)
GCB 3022—Genetics (3 cr)
or Biol 4003—Genetics (3 cr)
Math 1142—Short Calculus (3 cr)
or Math 1271—Calculus I (4 cr)
and Math 1272—Calculus II (4 cr)
Phys 1201—General Physics I (5 cr)
Phys 1202—General Physics II (5 cr)
Stat 3011—Introduction to Statistical Analysis (4 cr)
or Stat 3021—Introduction to Probability and Statistics (3 cr)
or Stat 3021—Statistical Analysis (4 cr)

Minor Requirements
For those having completed Biol 1009; Chem 1021, 1022, and 2301; and BioC 3021:
FScN 1112—Principles of Nutrition (3 cr)
FScN 3612—Life-Cycle Nutrition (3 cr)
FScN 4612—Human Nutrition (3 cr)
FScN 4613—Experimental Nutrition (2 cr)
FScN 5621—Nutrition and Metabolism (4 cr)

Retail Merchandising
Department of Design, Housing, and Apparel
B.S.
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. Graduates of the program begin their careers in store or corporate environments. Entry-level positions include merchandising, marketing, product development, distribution, store management, visual merchandising, buying, advertising, sales promotion, and human resources.

Degree Requirements
To complete the degree, students must complete at least 120 credits, including 94 credits in the major. All required courses must be taken A-F and completed with a grade of at least C. Students must maintain an overall GPA of at least 2.00 and must also complete the University’s liberal education requirements.

Required Courses
Acct 2050—Introduction to Financial Reporting (4 cr)
ApEc/Econ 1101—Principles of Microeconomics (3-4 cr)
ApEc/Econ 1102—Principles of Macroeconomics (3-4 cr)
BA 1550—Business Statistics: Data Sources, Presentation, and Analysis (4 cr)
BIE 5624—Sales Training (3 cr)
or BIE 5625—Customer Service Training (3 cr)
DHA 1101—Introduction to Design Thinking (4 cr)
DHA 2011—Clothing Design, Merchandising, and the Consumer (3 cr)
DHA 2213—Textile Analysis (4 cr)
DHA 2214—Softlines Analysis (3 cr)
DHA 3241—Retail Buying (3 cr)
DHA 3243—Visual Merchandising (3 cr)
DHA 3245—Nonstore Retailing (3 cr)
DHA 4196—Internship in DHA (3 cr)
DHA 4212—Dress, Society, and Culture (4 cr)
DHA 4217—International Developments in Textiles and Apparel (4 cr)
DHA 4241—Retail Promotion (3 cr)
DHA 5216—Textile and Apparel Consumer (3 cr)
HRIR 3021—Human Resource Management and Industrial Relations (4 cr)

Final Project
An internship is to be completed before the last semester of the student’s program.