College of Human Ecology

Admission ................................................................. 135
General Information ................................................. 135
Degrees/Majors ...................................................... 135
Minors .................................................................. 135
Honors .................................................................. 135
Policies .................................................................. 136
Graduation Requirements .................................. 136
Scholarships ....................................................... 136
International Programs ...................................... 136
Advising .............................................................. 137
Career Information ............................................... 137
Student Organizations ......................................... 137
Directory ............................................................. 137
Clothing Design .................................................... 138

Degree Programs and Minors
Family Social Science ........................................ 139
Family Violence Prevention ............................ 140
Food Science ...................................................... 140
Graphic Design .................................................. 141
Housing Studies .................................................. 142
Interior Design .................................................... 143
Nutrition .............................................................. 145
Retail Merchandising ........................................ 146
Youth Studies ....................................................... 147
Knowledge transforming people... . People transforming lives

The College of Human Ecology (CHE) 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 more than a century of excellence and the strengths of four units: Design, Housing, and Apparel; Family Social Science; Food Science and Nutrition; and the School of Social Work.

The undergraduate programs are professionally focused and guided by faculty who make working with undergraduate students a top priority. Faculty members have close working relationships with industry professionals from the community who collaborate on discovery 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. All locations provide access and facilities for persons with disabilities.

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. Admission to CHE majors is competitive, and space is limited.

Freshmen—See Freshman Admission in the General Information section of this catalog and refer to the University of Minnesota, Twin Cities undergraduate application booklet for freshman admission requirements.

Transfer Students—Complete high school preparation requirements, including one year each of algebra, geometry, and intermediate algebra. Required transfer grade point average (GPA) varies by program, as does space availability. Please check with the CHE college office for more information.

Transfer Advising—Students who wish to transfer to CHE may contact a transfer specialist by calling 612-624-1725. For more information, see Transfer Admission in the General Information section of this catalog.

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 four 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 (minor available)
- Department of Food Science and Nutrition
  - Food Science (minor also available)
  - Nutrition (minor also available)
- School of Social Work
  - Family Violence Prevention (minor only)
  - Youth Studies (minor 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 five minors: family social science, family violence prevention, food science, nutrition, and youth studies. All are explained in the following Degree Programs and Minors section.

- Design is offered as a university-wide minor. See the listing in this catalog under the College of Architecture and Landscape Architecture.

Honors

The lower division honors program offers freshmen and sophomores an opportunity to form close relationships with faculty, to explore new ideas, and to share their ideas, interests, and lives on a daily basis. Students develop these relationships by participating in honors classes and by living in Honors Housing in residence halls on campus. Lower division honors students complete three honors learning experiences and receive a certificate of completion at the annual CHE honors and awards programs.
The upper division honors program offers juniors and seniors additional opportunities to achieve their academic and professional goals. Upper division students complete two honors learning experiences 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) or check the Web site at www.che.umn.edu/ss>.

## Policies

CHE Students are responsible for complying with University policies. See the Policies section of this catalog.

### Academic Recognition

Each semester the college recognizes and honors all students whose academic performance places them on the dean’s list by sending letters of congratulation and posting the list in a display case in the main hallway of McNeal Hall. Dean’s list criteria are described in the Policies section of this catalog.

### Academic Progress

CHE students are expected to make satisfactory and timely progress in their degree programs and 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 cumulative GPA in order to go through portfolio review and move from pre-major to major status. If a cumulative GPA falls below 2.50, the student is notified and required to meet with an academic adviser each term before registering.

### Academic Probation and Suspension

See Probation in the Policies section of this catalog. CHE views probation as a means to intervene on the student’s behalf before his or her academic situation becomes worse. Students on probation are required to meet with their adviser before registering for the next term and are encouraged to meet with the adviser throughout the semester to identify issues and develop strategies for academic success.

### Course Cancellation

Students are permitted one discretionary course cancellation, or withdrawal, after the cancellation deadline but before the study day. For more information, see the Policies section in this catalog.

Other late cancellations are approved by the Student Scholastic Standing Committee only when verified extenuating circumstances arise that prevent a student from completing a course after the cancellation deadline. Any cancellation, discretionary or otherwise, after the cancellation deadline must be requested by written petition to the CHE Student Scholastic Standing Committee, 32 McNeal Hall. General course cancellation procedures are described in the Class Schedule each semester.

### Credit Load

To carry more than 20 credits, a student must have a 3.00 cumulative GPA and must obtain permission from the Student Scholastic Standing Committee, 32 McNeal Hall. General course cancellation procedures are described in the Class Schedule each semester.

### Holds

General information about holds (negative course indicators) can be found in the Class Schedule. Registration holds from the college ensure that students receive appropriate advising for course selection and progress toward their degree. CHE will place a registration hold on a student’s record if:

- A term GPA is below 2.00.
- A student is a design major who does not have the minimum cumulative GPA of 2.50 to go through portfolio review.
- A student is suspended.
- A student has returned from suspension and is under an academic contract.

This prohibits students from registering without academic adviser permission.

### Petitions

To request permission to depart from department or college requirements or policies, students must complete a petition form available at the college office, 32 McNeal Hall. They should meet with their academic adviser to discuss the petition, and if the adviser supports and signs the petition, the student then submits it along with a current transcript to the Student Scholastic Standing Committee, 32 McNeal Hall. The decision will be mailed to the student. Appeals for petitions that are not approved may be directed to the associate dean for academic affairs, 32 McNeal Hall.

### Academic Integrity

CHE students are expected to behave responsibly and ethically. CHE students, faculty, and staff work together to create and sustain a climate of open and scholarly debate. CHE 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

CHE’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, monitoring students’ performance and dealing with questions of probation, suspension, and readmission.

The committee seeks to maintain the spirit of CHE’s regulations as flexibly as possible and is empowered to make exceptions in cases in which regulations work to students’ educational disadvantage.

Students are urged to consult a committee representative in their college office concerning almost any kind of problem, but especially those they think interfere with their ability to attain their academic objectives. Well-established petition and appeal procedures assure full review of student requests.

### Graduation Requirements

University graduation requirements are listed in the Policies section of this catalog.

### 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 of up to $5,000 per year 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 (612-624-1717) 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). See also Study Abroad in the General Information section of this catalog.
Advising

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

Design, Housing, and Apparel Students—Students enrolled in pre-clothing design, pre-graphic design, pre-interior design, clothing design, graphic design, interior design, housing studies, and retail merchandising should call 612-674-9700 for adviser information or to make an appointment.

Family Social Science Students—Students enrolled in family social science should call 612-625-2252 or 625-1282 for adviser information or to make an appointment.

Food Science and Nutrition Students—Students enrolled in food science and nutrition should call 612-624-6753 for adviser information or to make an appointment.

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 (612-624-4244).

Career Information

The Career Services Center, 12 McNeal Hall (612-624-6762), offers individual counseling and programming, and maintains a Career Resource Library and Web site to help students clarify career goals, secure and fund internships, and plan for a proactive job search. Staff members are available to discuss career choices and employment opportunities. Jobs and internships are posted online and in the 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. Most CHE programs require students to participate in a preplanned 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

College of Human Ecology Student Ambassadors
• promote the college to prospective students,
• provide assistance to current students,
• participate in college leadership and activities, and
• build community through energetic and fun programs.

The CHE Student Ambassadors sponsor and organize the Human Ecology Student Hospitality Room during freshman orientation and provide representation on 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 Institute of Architects
• American Society of Interior Designers
• 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
• Institute of Business Designers
• International Interior Design Association
• Twin Cities Style Association
• Student Organization of Nutrition and Dietetics

Honor Societies
Phi Upsilon Omicron—This national honor society in family and consumer sciences has over 80,000 members across the United States. Its purposes are to recognize and encourage academic excellence, develop qualities of professional and personal leadership, provide opportunities for service to the profession, and encourage professional and personal commitment in order to advance family and consumer sciences and related areas.

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.
College of Human Ecology

Degree Programs and Minors

Clothing Design

Department of Design, Housing, and Apparel

B.S.

In the clothing design program students develop an 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 cover 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 or successfully completing DHA 1221.
- Complete DHA 1101W, 1201, 1311, 1312, and 2221.
- Maintain overall GPA of at least 2.50.
- Receive positive assessment of design work through portfolio review.

Degree Requirements

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

Required Courses

DHA 1101W—Introduction to Design Thinking (4 cr)
DHA 1201—Clothing Design, Merchandising, and the Consumer (3 cr)
DHA 1311—Foundations: Drawing and Design in Two and Three Dimensions (4 cr)
DHA 1312—Foundations: Color and Design in Two and Three Dimensions (4 cr)
DHA 2211—Illustration for Clothing Design (2 cr)
DHA 2213—Textile Analysis (4 cr)
DHA 2221—Clothing Design Studio I (4 cr)
DHA 2222—Clothing Design Studio II (4 cr)
DHA 3217—Fashion: Trends and Visual Analysis (3 cr)
DHA 3223—Clothing Design Studio III (3 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 4212W—Dress, Society, and Culture (3 cr)
DHA 4215—Product Development: 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)
DHA 4400—Woven and Non-Woven Fiber Design Workshop (4 cr)
DHA 4216—Textile and Apparel Consumer (3 cr)
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 3562W—Technical and Professional Writing (4 cr)

Sample Program

Freshman Year

Fall Semester
- DHA 1201—Clothing Design, Merchandising, and the Consumer (3 cr)
- DHA 1311—Foundations: Drawing and Design in Two and Three Dimensions (4 cr)
- Rhet 1101—Writing to Inform, Convince, and Persuade (4 cr)
- Liberal education elective (4 cr)

Spring Semester
- DHA 1101W—Introduction to Design Thinking (4 cr)*
- DHA 1221—Clothing Assembly Fundamentals (4 cr)
- or pass sewing proficiency exam
- DHA 1312—Foundations: Color and Design in Two and Three Dimensions (4 cr)
- Rhet 1223—Oral Presentations in Professional Settings (3 cr)
- Liberal education elective (4 cr), if not taking DHA 1221

Sophomore Year

Fall Semester
- DHA 2213—Textile Analysis (4 cr)
- DHA 2221—Clothing Design Studio I (4 cr)
- Liberal education electives (7 cr)

Spring Semester
- DHA 2211—Illustration for Clothing Design (2 cr)
- DHA 2222—Clothing Design Studio II (4 cr)
- DHA 3312—Color and Form in Surface Design (3 cr)
- Liberal education electives (7 cr)
Degrees Programs

College of Human Ecology

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. This major prepares graduates for careers in working with individuals, families, or systems in human services. Students incorporate into the major a family-oriented area of learning that focuses on a special population, issue, or complementary discipline. The major is enhanced by a required internship related to the student’s 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 allied health disciplines.

Admission Requirements—The program admits freshmen and transfer students.

Degree Requirements

Students must complete at least 120 credits, including 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

Preparatory Requirements

One economics course (3-4 cr)

One statistics course (3-4 cr)

One sociology course (3-4 cr)

Choose one course from the following areas (3-4 cr): child psychology, human development, psychology, sociology, political science, social work, anthropology, or FSoS 1101

Rhet 1101—Writing to Inform, Convince, and Persuade (4 cr)

Rhet 1223—Oral Presentations in Professional Settings (3 cr)

Rhet 3562W—Technical and Professional Writing (4 cr)

Major Core Studies Requirements

FSoS 2101—Preparation for Working with Families (2 cr)

FSoS 3101—Personal and Family Finance (3 cr)

FSoS 3102—Family Systems and Diversity (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 4104W—Family Psychology (3 cr)

FSoS 4105—Methods in Family Research (3 cr)

FSoS 4106—Family Resource Management (3 cr)

FSoS 4296—Field Study: Working with Families (4 cr)

or FSoS 4294—Research Internship (4 cr)

Advance Core Electives

Select two courses from the following (5 cr min): FSoS 4150, FSoS 4152, FSoS 4153, FSoS 4154, FSoS 4155, FSoS 4156

Applied Area of Study

21 cr of 3xxx, 4xxx, and 5xxx courses.

Students integrate a family-oriented application area in consultation with their adviser. The area may focus on a population such as children, adolescents, women, gay/lesbian persons, or immigrants; an issue such as family economics, gerontology, alcohol and substance abuse, health, sexuality, human rights, 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 focus on statistics, theory/research-oriented thought, and research experiences for their application area.

Family Social Science Minor

Required Courses

FSoS 4150—Family Systems and Diversity (3 cr)

FSoS 3101—Personal and Family Finance (3 cr)

FSoS 2101—Preparation for Working with Families (2 cr)

FSoS 4103—Family Policy (3 cr)

FSoS 4104W—Family Psychology (3 cr)

FSoS 4105—Methods in Family Research (3 cr)

FSoS 4106—Family Resource Management (3 cr)

FSoS 4152—Gay, Lesbian, and Bisexual Persons in Families (3 cr)

FSoS 4154—Families and Aging (3 cr)

FSoS 4155—Parent-Child Relationships (3 cr)

Sample Program

Freshman Year

Fall Semester

Econ 1101—Principles of Microeconomics (4 cr)*

or ApEc 1101—Principles of Microeconomics (3 cr)*

FSoS 2101—Preparation for Working with Families (2 cr)

FSoS 3101—Personal and Family Finance (3 cr)

Liberal education electives (7 cr)

Spring Semester

Rhet 1101—Writing to Inform, Convince, and Persuade (4 cr)

Liberal education electives (7 cr)

Sophomore Year

Fall Semester

Econ 1101—Principles of Microeconomics (4 cr)*

or ApEc 1101—Principles of Microeconomics (3 cr)*

FSoS 2101—Preparation for Working with Families (2 cr)

FSoS 3101—Personal and Family Finance (3 cr)

Liberal education electives (7 cr)

Spring Semester

FSoS 3102—Family Systems and Diversity (3 cr)*

Liberal education electives (12 cr)
Family Violence Prevention

Interdisciplinary

Minor Only
The family violence prevention minor is a 15-credit undergraduate program for students interested in strengthening their educational experience with a research base and a set of practical skills in family violence prevention. It is an intensive, interdisciplinary learning experience for students in all fields of study.

Courses are in fields related to social services, education, health care, and other direct services addressing issues related to child abuse and neglect, adult domestic violence, elder abuse, and intergenerational abuse. Students will learn theories and research related to violent behavior, examine relationships between violence in society and violence within families, and explore different professional responses to violence. Elective courses provide the opportunity to integrate these concepts into further study within a major or in other fields of interest.

Required Courses
SW 3706—Family Violence and Prevention: Exploring the Issues (3 cr)
SW 3402—Child Abuse and Neglect: Intervention and Prevention (3 cr)
SW 3705—Gender Violence in Global Perspective (3 cr)

Six additional credits from departments throughout the University of Minnesota.

For information, call 612-624-4905 or look for this minor on the Web site <www.ssw.che.umn.edu> under Centers and Projects.

Food Science

B.S.
Food science is the application of science to the study of food. Chemistry, microbiology, physics, and engineering are scientific disciplines involved in food science.

- Microbiology—because many foods are made by microorganisms (e.g., bread, cheese, yogurt, sauerkraut, tempeh) and because microorganisms cause extensive, rapid, and often dangerous spoilage.

- Chemistry—because many foods are made by microorganisms (e.g., bread, cheese, yogurt, sauerkraut, tempeh) and because microorganisms cause extensive, rapid, and often dangerous spoilage.

- Physics and engineering—because foods must be constructed, moved through the factory, made safe, and distributed intact to the consumer.

Food science involves creating new food products and making current products more stable, nutritious, convenient, reliable, and safe. Food science begins with an understanding of the plants and animals that will become food, and ends with an understanding of why people choose to eat the foods they eat.

The food science program is a collaborative partnership between CHE and the College of Agricultural, Food and Environmental Sciences.

Degree Requirements
Students must complete at least 120 credits, including 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 FScN courses must be 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)

BioC 3301—Biology of Microorganisms (5 cr)

Rhet 1101—Writing to Inform, Convince, and Persuade (4 cr)

Rhet 1223—Oral Presentations in Professional Settings (3 cr)

Stat 3011—Introduction to Statistical Analysis (4 cr)

Select one of the following physics series: Phys 1101/1102, Phys 1201/1202, Phys 1301/1302. Note: Phys 1301 and 1302 are recommended.

Select one of the following laboratory skills courses: BioC 4025, Chem 2111, Chem 2311, FScN 4613

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—Laboratory Methods in Microbiology and Fermentations (2 cr)

FScN 4131—Food Quality (3 cr)

FScN 4312—Food Analysis (4 cr)

FScN 4331—Food Process Engineering I (3 cr)

FScN 4332—Food Process Engineering II (4 cr)

One of the following FScN courses with a capstone component: FScN 4341, 4342, 4343, 4344, 4345, 4346

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

Sample Program

Freshman Year

Fall Semester
Chem 1021—Chemical Principles I (4 cr)*
FScN 1102—Food: Safety, Risks, and Technology (3 cr)*
Math 1271—Calculus I (4 cr)*
Rhet 1101—Writing to Inform, Convince, and Persuade (4 cr)

Spring Semester
Biol 1009—General Biology (4 cr)*
Chem 1022—Chemical Principles II (4 cr)*
Math 1272—Calculus II (4 cr)
Liberal education elective (4 cr)

*Courses with an asterisk may be used to fulfill both major and liberal education requirements.
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. 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 1-2 credits is required.

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 1101W, 1311, 1312, and 1315.
- Maintain an overall GPA of at least 2.50.
- Receive positive assessment of design work through portfolio review.

Degree Requirements
Students must complete at least 120 credits, including 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 all required DHA courses must be completed with a grade of at least a C-.

Required Courses
DHA 1101W—Introduction to Design Thinking (4 cr)
DHA 1311—Foundations: Drawing and Design in Two and Three Dimensions (4 cr)
DHA 1312—Foundations: Color Design in Two and Three Dimensions (4 cr)
DHA 1315—Foundations: 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 2385W—Design and Factors of Human Perception (4 cr)
DHA 3312—Color and Form in Surface Design (3 cr)
DHA 3352—Graphic Design II: Identity and Symbols (3 cr)
DHA 3353—Graphic Design III: Packaging and Display (3 cr)
DHA 4131—History of Visual Communication (4 cr)
DHA 4196—Internship in DHA (1-2 cr)
DHA 4334—Computer Applications II: Design for the Digital Environment (3 cr)
DHA 4345—Advanced Typographic Design (4 cr)
DHA 4354—Graphic Design IV: Integrative Campaign (4 cr)
DHA 4355—Graphic Design Portfolio (2 cr)
DHA 4365W—Graphic Design Senior Seminar (4 cr)
DHA 4401W—Advanced Design Studio I (2 cr)
DHA 4402W—Advanced Design Studio II (2 cr)
Rhet 1101—Writing to Inform, Convince, and Persuade (4 cr)
Rhet 1223—Oral Presentations in Professional Settings (3 cr)
Rhet 3562W—Technical and Professional Writing (4 cr)

One course from each of the following areas:
- Art history, history, photography, and business or economics or marketing

Materials Course
Select one from the following:
DHA 4334—Computer Applications II: Design for the Digital Environment (3 cr)
DHA 4355—Graphic Design Portfolio (2 cr)
DHA 4365W—Graphic Design Senior Seminar (4 cr)
DHA 4401W—Advanced Design Studio I (2 cr)
DHA 4402W—Advanced Design Studio II (2 cr)
Rhet 1101—Writing to Inform, Convince, and Persuade (4 cr)
Rhet 1223—Oral Presentations in Professional Settings (3 cr)
Rhet 3562W—Technical and Professional Writing (4 cr)

For additional approved courses, see your adviser.

Program Electives
Select two courses from the following:
DHA 3385W—Design and Factors of Human Perception (4 cr)
DHA 4334—Computer Applications II: Design for the Digital Environment (3 cr)
DHA 4355—Graphic Design Portfolio (2 cr)
DHA 4365W—Graphic Design Senior Seminar (4 cr)
DHA 4401W—Advanced Design Studio I (2 cr)
DHA 4402W—Advanced Design Studio II (2 cr)
Rhet 1101—Writing to Inform, Convince, and Persuade (4 cr)
Rhet 1223—Oral Presentations in Professional Settings (3 cr)
Rhet 3562W—Technical and Professional Writing (4 cr)

For additional courses, see your adviser.

Sample Program

Freshman Year
Fall Semester
DHA 1101W—Introduction to Design Thinking (4 cr)
DHA 1311—Foundations: Drawing and Design in Two and Three Dimensions (4 cr)
Rhet 1101—Writing to Inform, Convince, and Persuade (4 cr)
Liberal education elective (4 cr)
Spring Semester
DHA 1312—Foundations: Color and Design in Two and Three Dimensions (4 cr)
DHA 1315—Foundations: The Graphic Studio (4 cr)
History course (3-4 cr)
Liberal education elective (4 cr)
Sophomore Year

Fall Semester
DHA 2311—Drawing and Illustration (3 cr)
DHA 2334—Computer Applications I: Digital Composition for Design (3 cr)
Rhet 1223—Oral Presentations in Professional Settings (3 cr)
Art history course (3 cr)
Liberal education elective (3)

Spring Semester
DHA 2345—Typographic Design (3 cr)
DHA 2385W—Design and Factors of Human Perception (4 cr)*
DHA 3312—Color and Form in Surface Design (3 cr)
DHA 4351—Design Process: Photography (3 cr)
Liberal education elective (3)

Junior Year

Fall Semester
DHA 2351—Graphic Design I: Text and Image (3 cr)
DHA 4131—History of Visual Communication (4 cr)*
DHA 4334—Computer Applications II: Design for the Digital Environment (3 cr)
Business/Marketing/Economics course (3 cr)
Liberal education elective (3)

Spring Semester
DHA 3352—Graphic Design II: Identity and Symbols (3 cr)
DHA 3353—Graphic Design III: Packaging and Display (3 cr)
DHA 4352—Design Process: Bookmaking (3 cr)
Rhet 3562W—Technical and Professional Writing (4 cr)
Liberal education elective (3 cr)

Senior Year

Fall Semester
DHA 4196—Internship (1-2 cr)
DHA 4345—Advanced Typographic Design (4 cr)
DHA 4354—Graphic Design IV: Integrative Campaign (4 cr)
Program elective (3 cr)
Liberal education elective (3 cr)

Spring Semester
DHA 4355—Graphic Design Portfolio (2 cr)
DHA 4365W—Senior Seminar (4 cr)*
Program elective (3 cr)
Liberal education elective (3 cr)

*Courses with an asterisk may be used to fulfill both major and liberal education requirements.

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 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.

Depending upon prior courses a student has taken, the housing studies requirements can often be completed in approximately two years. Students are encouraged to meet with an adviser to discuss their specific situations.

Degree Requirements
Students must complete at least 120 credits, including 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
DHA 1101W—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 Global Perspective (3 cr)
or DHA 5484—Rural Housing Issues (3 cr)
DHA 4482—Residential Environmental Quality (3 cr)
or DHA 5481—Housing for the Elderly and Special Populations (3 cr)
DHA 5463—Housing Policy (3 cr)
DHA 5467W—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)
Rhet 3562W—Technical and Professional Writing (4 cr)
WPS 4333—Systems Approach to Residential Construction (2 cr)

One finance course from ApEc 1101/Econ 1101, ApEc 1102/Econ 1102, Econ 3701, Econ 3801
One family course from FSoS 3101, FSoS 3102, FSoS 4106
One planning course from Geog 3361W, Geog 3371W, Geog 3605W, Geog 5372W, PA 4200

One statistics course from EPsy 3264, GC 1454, OMS 1550, Psy 4801, Stat 1001, Stat 3011

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

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, Arch 5546, ArtH 5546, CE 4101W, DHA 1601, DHA 1602, DHA 2612, DHA 2613, DHA 2621, DHA 4482, DHA 5481, Geog 5724, PubH 5110, PubH 5120, PubH 5171, PubH 5173, PubH 5200, 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
Special Populations Concentration
Courses (or a minor) in areas such as sociology, social work, gerontology, women’s studies, African-American and African 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-American and African studies, American Indian studies, Chicano studies, global studies, Latin American studies, women’s studies, or youth 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) Special Populations: the elderly: DHA 5481, DHA 5484, FSoS 415W, Ger 3101, Kin 5385, PA 5412, Psy 5138, PubH 3001, PubH 5032, Rec 5241, Rhet 4573, Rhet 5258, SW 2001, SW 5113, WSo 4201


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

Sample Program
Freshman Year
Fall Semester
DHA 1101W—Introduction to Design Thinking (4 cr)*
Rhet 1101—Writing to Inform, Convince, and Persuade (4 cr)
Liberal education electives (7 cr)
Spring Semester
Rhet 1223—Oral Presentations in Professional Settings (3 cr)
Liberal education electives (12 cr)

Sophomore Year
Fall Semester
DHA 2401—Introduction to Housing (3 cr)
Finance course (3-4 cr)
Liberal education electives (9 cr)
Spring Semester
DHA 2402—Residential Technology (3 cr)
DHA 2463—Housing and Community Development (3 cr)*
Family course (3 cr)
Liberal education electives (6 cr)

Junior Year
Fall Semester
DHA 5481—Housing for the Elderly and Special Populations (3 cr)
or DHA 4482—Residential Environmental Quality (3 cr)
Concentration courses (6 cr)
Statistics course (3-4 cr)
Liberal education elective (3 cr)
Spring Semester
DHA 4461—Multifamily Housing Management (4 cr)
DHA 4465—Housing in Global Perspective (3 cr)*
or DHA 5484—Rural Housing Issues (3 cr)
WPS 4333—Systems Approach to Residential Construction (2 cr)
Concentration courses (6 cr)

Senior Year
Fall Semester
DHA 5467W—Housing and the Social Environment (3 cr)*
Rhet 3562W—Technical and Professional Writing (4 cr)
Planning course (3-4 cr)
Concentration courses (5-6 cr)
Spring Semester
DHA 4196—Internship (2 cr)
DHA 5463—Housing Policy (3 cr)
Concentration course (3 cr)
Liberal education electives (7 cr)

Courses with an asterisk may be used to fulfill both major and liberal education requirements.

Interior Design
Department of Design, Housing, and Apparel
B.S.
Interior design is a professional program accredited by the Foundation for Interior Design Education Research (FIDER). 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 humans 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—Freshmen and transfer students are initially admitted into the program as pre-interior design majors.

The interior design program is the only four-year accredited interior design program in Minnesota.
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 1101W, 1311, 1312, 1601, and 1602.
- 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 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-. Finally, students must complete a 400-hour internship after completing DHA 3606.

**Required Courses**

- Arch 3411—Architectural History to 1750 (3 cr)
- or Arch 3412—Architectural History Since 1750 (3 cr)
- DHA 1101W—Introduction to Design Thinking (4 cr)
- DHA 1311—Foundations: Drawing and Design in Two and Three Dimensions (4 cr)
- DHA 1312—Foundations: Color and Design in Two and Three Dimensions (4 cr)
- DHA 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—Interior Materials 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 4196—Internship in DHA (1 cr, additional credit optional)
- DHA 4607—Interior Design Studio VII (4 cr)
- DHA 4608W—Interior Design Thesis (6 cr)
- Econ 1101/ApEc 1101—Principles of Microeconomics (3-4 cr)
- Mgmt 3001—Fundamentals of Management (3 cr)
- Mktg 3001—Principles of Marketing (3 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)
- Liberal education elective (3-4)

**Recommended courses if elective credit is needed to total 125 credits required for graduation:**

- DHA 5111—History of Decorative Arts (4 cr)
- DHA 5481—Housing for the Elderly and Special Populations (3 cr)
- DHA 4131—History of Visual Communication (4 cr)
- DHA 4330—Surface Fabric Design Workshop (4 cr)
- or DHA 4340—Woven, Knit, and Non-Woven Fiber Design Workshop (4 cr)

**Sample Program**

**Freshman Year**

**Fall Semester**

- DHA 1101W—Introduction to Design Thinking (4 cr)*
- DHA 1311—Foundations: Drawing and Design in Two and Three Dimensions (4 cr)
- DHA 1601—Interior Design Studio I (4 cr)
- Rhet 1101—Writing to Inform, Convince, and Persuade (4 cr)

**Spring Semester**

- DHA 1312—Foundations: Color and Design in Two and Three Dimensions (4 cr)
- DHA 1602—Interior Design Studio II (4 cr)
- DHA 2402—Residential Technology (3 cr)
- Psy 1001—Introduction to Psychology (4 cr)*

**Sophomore Year**

**Fall Semester**

- DHA 2213—Textile Analysis (4 cr)
- DHA 2603—Interior Design Studio III (4 cr)
- DHA 2612—Interior Materials and Life Safety (4 cr)
- DHA 2621—Computer Aided Design: Interior Design (4 cr)

**Spring Semester**

- DHA 2604—Interior Design Studio IV (4 cr)
- DHA 2613—Lighting Design and Building Systems (4 cr)
- Rhet 1223—Oral Presentations in Professional Settings (3 cr)
- Liberal education elective (3-4)

**Junior Year**

**Fall Semester**

- DHA 3605—Interior Design Studio V (4 cr)
- DHA 3614—Interior Design Ethics and Professional Practice (4 cr)*
- Econ 1101—Principles of Microeconomics (4 cr)*
- Liberal education elective (3-4)

**Spring Semester**

- Arch 3411—Architectural History to 1750 (3 cr)*
- or Arch 3412—Architectural History Since 1750 (3 cr)*
- DHA 3606—Interior Design Studio VI (4 cr)
- DHA 4196—Internship (1 cr)
- Rhet 3562W—Technical and Professional Writing (4 cr)
- Liberal education elective (3-4)

**Senior Year**

**Fall Semester**

- DHA 4161—History of Interiors and Furnishings: Ancient to 1750 (4 cr)*
- DHA 4607—Interior Design Studio VII (4 cr)
- Mgmt 3001—Fundamentals of Management (3 cr)
- Liberal education elective (6-8 cr)

**Spring Semester**

- DHA 4162—History of Interiors and Furnishings: 1750 to Present (4 cr)*
- DHA 4608W—Interior Design Thesis (6 cr)
- Mktg 3001—Principles of Marketing (3 cr)
- Liberal education electives (4-6 cr)

*Courses with an asterisk may be used to fulfill both major and liberal education requirements.
Nutrition

B.S.
The nutrition program is a collaborative partnership between CHE and the College of Agricultural, Food and Environmental Sciences. The major explores how nutrients and the foods from which they are derived aid the body in health, growth, and development. With major national and international concern for how food and nutrition affect health and disease, registered dietitians and nutritionists have many career opportunities. 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 2.80. 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
Students must complete at least 120 credits, including the University’s liberal education requirements, and must maintain an overall GPA of at least 2.00. All required courses must be taken A-F, and FS-CN courses must be completed with a grade of at least C-.

Required Courses for All Options
BioC 3021—Biochemistry (3 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)
FS-CN 1102—Food: Safety, Risks, and Technology (3 cr)
FS-CN 1112—Principles of Nutrition (3 cr)
FS-CN 3102—Introduction to Food Science (3 cr)
FS-CN 3612—Life Cycle Nutrition (3 cr)
FS-CN 4612—Human Nutrition (3 cr)
FS-CN 4613—Experimental Nutrition (2 cr)
FS-CN 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 3562W—Technical and Professional Writing (4 cr)
VPB 2032—General Microbiology with Laboratory (4 cr)
or MicB 2032—General Microbiology with Laboratory (4 cr)
or MicB 3301—Biology of Microorganisms (5 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, demonstrated leadership skills, and who are highly recommended, may apply for a postbaccalaureate dietetic internship.

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

Choose one of the following:
FS-CN 4111—Food Chemistry (3 cr)
FS-CN 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, 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)
FS-CN 3614—Nutrition Education (3 cr)
FS-CN 3615—Sociocultural Aspects of Food, Nutrition, and Health (3 cr)
FS-CN 3662—Introduction to Dietetic Practice (2 cr)
FS-CN 3732—Food Service Operations Management (3 cr)
FS-CN 3736—Field Experience in Food Service Management (3 cr)
FS-CN 4536—Field Experience: Community Nutrition (3 cr)
FS-CN 4614—Community Nutrition (3 cr)
FS-CN 4665—Medical Nutrition Therapy I (3 cr)
FS-CN 4666—Medical Nutrition Therapy II (3 cr)
FS-CN 4696—Field Experience: Medical Nutrition Therapy I (6 cr)
FS-CN 4732—Food and Nutrition Management (3 cr)
FS-CN 4796—Field Experience in Food and Nutrition Management (3 cr)
FS-CN 4806—Field Experience: Medical Nutrition Therapy II (3 cr)
FS-CN 4996—Field Experience: Medical Nutrition Therapy III (3 cr)
Math 1031—College Algebra and Probability (3 cr)
Mgmt 3001—Fundamentals of Management (3 cr)
Stat 3011—Introduction to Statistical Analysis (4 cr)

Choose one of the following:
FS-CN 4111—Food Chemistry (3 cr)
FS-CN 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 another advanced biology course
Chem 2302—Organic Chemistry II (3 cr)
Chem 2311—Organic Chemistry Lab (4 cr)
FS-CN 4111—Food Chemistry (3 cr) or an advanced chemistry course

Through the generosity of alumni and friends, the college has one of the largest endowments for undergraduate scholarships at the University, ranging between $1,000 and $5,000.
Sample Program—Nutrition Option

Freshman Year

Fall Semester
Biol 1009—General Biology (4 cr)*
Chem 1021—Chemical Principles I (4 cr)*
FScN 1112—Principles of Nutrition (3 cr)*
Rhet 1101—Writing to Inform, Convince, and Persuade (4 cr)

Spring Semester
Chem 1022—Chemical Principles II (4 cr)
FScN 1102—Food: Safety, Risks, and Technology (3 cr)*
Math 1031—College Algebra and Probability (3 cr)*
Rhet 1223—Oral Presentations in Professional Settings (3 cr)

Sophomore Year

Fall Semester
Chem 2301—Organic Chemistry I (3 cr)
FScN 3612—Life Cycle Nutrition (3 cr)
Phsl 3051—Human Physiology (4 cr)
Liberal education elective (6 cr)

Spring Semester
BioC 3021—Biochemistry (3 cr)
FScN 3615—Sociocultural Aspects of Food, Nutrition, and Health (3 cr)*
Stat 3011—Introduction to Statistical Analysis (4 cr)*
Liberal education electives (6 cr)

Junior Year

Fall Semester
FScN 3102—Introduction to Food Science (3 cr)
FScN 3614—Nutrition Education (3 cr)
FScN 3731—Food Service Operations Management Laboratory (2 cr)
FScN 3732—Food Service Operations Management (3 cr)
FScN 4612—Human Nutrition (3 cr)
Liberal education elective (6 cr)

Spring Semester
FScN 4614—Community Nutrition (3 cr)*
Mgmt 3001—Fundamentals of Management (2 cr)
MicB 2032—General Microbiology with Laboratory (MicB 3301 or VPB 2032 are also acceptable) (4-5 cr)
Rhet 3562W—Technical and Professional Writing (4 cr)*
Liberal education elective (3 cr)

Senior Year

Fall Semester
FScN 4111—Food Chemistry (3 cr)
FScN 4665—Medical Nutrition Therapy I (3 cr)
FScN 5621W—Nutrition and Metabolism (4 cr)*
Liberal education elective (6 cr)

Spring Semester
FScN 4613—Experimental Nutrition (2 cr)
FScN 4666—Medical Nutrition Therapy II (3 cr)
FScN 4732—Food and Nutrition Management (3 cr)*
Liberal education electives (6 cr)

*Courses with an asterisk may be used to fulfill both major and liberal education requirements.

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, buying, advertising, sales promotion, and human resources.

Degree Requirements

Students must complete at least 120 credits, including the University’s liberal education requirements, and must 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

Acct 2050—Introduction to Financial Reporting (4 cr)
or ApEc/Econ 1101—Principles of Microeconomics (3-4 cr)
or ApEc/Econ 1102—Principles of Macroeconomics (3-4 cr)
BIE 5626—Customer Service Training (3 cr)
or BIE 5624—Sales Training (3 cr)
DHA 1101W—Introduction to Design Thinking (4 cr)
DHA 1201—Clothing Design, Merchandising, and the Consumer (3 cr)
DHA 2213—Textile Analysis (4 cr)
DHA 2214—Softlines Analysis (3 cr)
DHA 3245—Nonstore Retailing (3 cr)
DHA 4196—Internship in DHA (3 cr)
DHA 4212W—Dress, Society, and Culture (3 cr)
DHA 4215—Product Development: Softlines (4 cr)
DHA 4217—International Developments in Textiles and Apparel (4 cr)
DHA 4241—Retail Promotion (3 cr)
DHA 4242—Retail Buying (3 cr)
HE 3201—Strategic Career Planning (1 cr)
HRIR 3021—Human Resource Management and Industrial Relations (3 cr)
Math 1031—College Algebra and Probability (3 cr)
Mgmt 3001—Fundamentals of Management (3 cr)
Mgmt 4002—Managerial Psychology (4 cr)
Mktg 3001—Principles of Marketing (3 cr)
Mktg 3010—Marketing Research (4 cr)
Mktg 4040—Buyer Behavior (4 cr)
OMS 1550—Business Statistics: Data Sources, Presentation, and Analysis (4 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 3562W—Technical and Professional Writing (4 cr)

Advanced core electives

Select two additional courses from the following:
DHA 3217, 3243, 4121, 5216

Final Project

A three-credit internship is to be completed before the last semester of the student’s program.
Sample Program

Freshman Year

Fall Semester
DHA 1101W—Introduction to Design Thinking (4 cr)*
DHA 1201—Clothing Design, Merchandising, and the Consumer (3 cr)*
Econ 1101—Principles of Microeconomics (4 cr)*
or ApEc 1101—Principles of Microeconomics (3 cr)*
Rhet 1101—Writing to Inform, Convince, and Persuade (4 cr)

Spring Semester
Econ 1102—Principles of Macroeconomics (4 cr)*
or ApEc 1102—Principles of Macroeconomics (3 cr)*
Math 1031—College Algebra and Probability (3)*
Psy 1001—Introduction to Psychology (4 cr)*
Rhet 1223—Oral Presentations in Professional Settings (3 cr)

Sophomore Year

Fall Semester
Acct 2050—Introduction to Financial Reporting (4 cr)
or ApEc 1251—Principles of Accounting (3 cr)
DHA 2213—Textile Analysis (4 cr)
Liberal education electives (7-8 cr)

Spring Semester
HRIR 3021—Human Resources Management and Industrial Relations (3 cr)
DHA 2214—Softlines Analysis (3 cr)
DHA 3245—Nonstore Retailing (3 cr)
OMS 1550—Business Statistics: Data Sources, Presentation, and Analysis (4 cr)
Liberal education elective (2-3 cr)

Junior Year

Fall Semester
HE 3201—Strategic Career Planning (1 cr)
Mgmt 3001—Fundamentals of Management (3 cr)
Mktg 3001—Principles of Marketing (3 cr)
Rhet 3562W—Technical and Professional Writing (4 cr)
Advanced core elective (3-4 cr)

Spring Semester
DHA 4212W—Dress, Society, and Culture (3 cr)*
Mgmt 4002—Managerial Psychology (4 cr)
Mktg 4040—Buyer Behavior (4 cr)
Liberal education elective (3 cr)

Senior Year

Fall Semester
BIE 5626—Customer Service Training (3 cr)
or BIE 5624—Sales Training (3 cr)
DHA 4196—Internship (3 cr)
DHA 4241—Retail Promotion (3 cr)
Advanced core elective (3-4 cr)
Liberal education elective (2-3 cr)

Spring Semester
DHA 4215—Product Development: Softlines (4 cr)
DHA 4217—International Developments in Textiles and Apparel (4 cr)*
DHA 4242—Retail Buying (3 cr)
Mktg 3010—Marketing Research (4 cr)
*Courses with an asterisk may be used to fulfill both major and liberal education requirements.

Youth Studies

School of Social Work

Minor Only
The youth studies minor is a 16-credit undergraduate minor that addresses youth as an idea, youth as young people, youthhood as the everyday lives of young people, and the responses of communities to this population.
Participants in the youth studies minor will learn about and critically analyze at a beginning level the families of ideas, models, concepts, discourses, and ways of understanding, responding to, and working with young people. Participants will craft their unique program from among the required designated courses to prepare for graduate training/education in the many scholarly and youth work professional fields. Participants will not become trained workers with youth nor receive any certification to do youth work in any participating field.

Required Courses
YoSt 2002—Introduction to Youth Studies: Understanding Youth, Young People, Youthhood, and Youth Work (4 cr)
YoSt 4002—Constructing Personal Models of Youth Scholarship and Youth Work (4 cr)

Eight additional credits from 15 different elective courses.
For more information contact Youth Studies, School of Social Work, 170 Peters Hall, St. Paul Campus, at 612-624-3700, or look for this minor on the Web site <www.ssw.che.umn.edu> under Centers and Projects.