

TEXTILES, MERCHANDISING & FASHION DESIGN: TEXTILE SCIENCE

Description

The textile science option emphasizes textiles and biofibers, textile production, and issues concerning the global textile industry. Professional support in related sciences and business is required. The program is planned for students interested in sales, research, or management in the textile industry. It is also recommended for students who plan to go on to graduate school in either textiles or related sciences. **Students are eligible to receive a minor in chemistry from the College of Arts and Sciences.**

College Requirements

College Admission

Students accepted by the University must have an ACT of 20 or SAT of 950, a 3.0 cumulative high school grade point average, or rank in the upper half of their high school graduating class and have the following high school preparation to be eligible for guaranteed admission to the College of Education and Human Sciences:

- Four years of English that include intensive reading and writing experience.
- Two years of one foreign language.
- Four years of mathematics that include Algebra I, II, geometry, and one year that builds on a knowledge of algebra.
- Three years of natural sciences that include at least two years selected from biology, physics, chemistry, and earth science and one year of laboratory instruction.
- Three years of social studies that include at least one year of American and/or world history and one year of history, American government, and/or geography.

Transfer and Readmitted Students

Transfer students from universities or colleges outside of the University of Nebraska–Lincoln and readmitted students seeking admission to the College of Education and Human Sciences must have an accumulated average of 2.0 on a 4.0 scale or above and no high school deficiencies. Students who do not meet these requirements must enroll as deciding students in the Exploratory and Pre-Professional Advising Center or in another college. Once they have completed 12 graded hours at Nebraska with a minimum 2.0 grade point average and have removed any high school deficiencies, University of Nebraska–Lincoln students may apply for admission to the College.

Transfer and readmitted students must meet the graduation requirements for the College of Education and Human Sciences as stated in the current catalog in effect at the time they enter or reenter the College.

Students who left the College on academic warning, or who were dismissed, may seek readmission to the College after two semesters by applying to the university's Admissions Office. Readmission is not assured. However, the admissions committee is receptive to giving students a second opportunity to be successful. The committee is interested in knowing what the student has done in the intervening period

that would suggest the student will be successful when readmitted. Successfully completing correspondence courses and/or community college courses is an effective way to demonstrate one's commitment to academic success.

Transferring from Other Colleges within the University of Nebraska–Lincoln

Students transferring to the College of Education and Human Sciences from another University of Nebraska–Lincoln college or from the Exploratory and Pre-Professional Advising Center must have a minimum cumulative GPA of 2.0, be in good academic standing, and meet the freshman entrance requirements that exist at the time of their admission to the College of Education and Human Sciences. **Students must fulfill degree requirements that exist at the time of their admission to the college, not at the time they enter the University of Nebraska–Lincoln.**

To remain current, College of Education and Human Sciences students must enroll in, and complete, at least one university course that will apply toward degree requirements during a 12-month period. Students who readmit following an absence of one year or more must meet all requirements in the Undergraduate Catalog in effect at the time of readmission and enrollment. Students who transfer to another University of Nebraska–Lincoln college and later return to the College of Education and Human Sciences will be considered readmitted students. Students who transfer out of a teacher education program, but continue their certification program while seeking a degree in another University of Nebraska–Lincoln college, are exempt from this policy.

International Students

The College of Education and Human Sciences welcomes undergraduate international students. As a part of admission to the College, international students must present a TOEFL score of 550 or higher and TSE score of 230 or higher.

Students seeking teacher education and state certification must meet the same requirements as any other undergraduate students. Students who have received a degree outside of the United States and are interested in teacher certification are required to have a transcript review completed by an approved agency not directly associated with the University of Nebraska. For more information, please contact the Student Services Center.

Removal of Deficiencies

Students admitted to the University with core deficiencies are expected to remove those deficiencies in a timely manner. Students with deficiencies are not eligible for graduation. The courses that students use to clear core deficiencies may also be used to meet ACE requirements or other graduation requirements. The Dean of the College of Education and Human Sciences will make the final decision concerning any problems or questions that may arise in satisfying requirements to remove deficiencies.

College Degree Requirements

Grade Rules

Minimum Grade Requirements

Grade requirements vary from major to major. Please see the appropriate major listing or check with your advisor regarding minimum grade requirements.

Pass/No Pass Option

CEHS students are allowed to take up to 12 hours of Pass/No Pass (P/N) credit. The college departments vary on P/N policies. Students should

check with their advisor to be certain they qualify for the Pass/No Pass option.

Grade Appeals

Any student enrolled in a course in the College of Education and Human Sciences who wishes to appeal alleged unfair and prejudicial treatment by a faculty member shall present their appeal in writing to the Dean's Office no later than 30 days after notice of the student's final course grade has been mailed from campus.

Students may use and are encouraged to use the following sequential procedures to appeal the grade. The problem may be solved at any of the levels of the appeal procedure.

1. Contact the instructor. Frequently, the problems can be solved at this point.
2. Submit a request to the chair of the department.
3. Take the case to the departmental Grading Appeals Committee. The Committee is contacted by the department chair.
4. Take the case to the College Appeals, Retention and Certification Committee by contacting the Dean's Office.

The complaint will be forwarded to a committee consisting of faculty and student representatives. After a hearing, the Committee will make a written recommendation regarding the appeal. The Committee's recommendation is binding on the appealing student and faculty member.

Transfer Credit Rules

Acceptance of Transfer Grades

- Grades earned at the University of Nebraska–Lincoln, UNO, UNK
- Grades of D-, D, D+, and C- satisfy requirements in all programs in the College unless specified otherwise. Students who receive a grade of D-, D, D+, C-, however, are encouraged to retake the course.
- Grades earned outside the University of Nebraska system

The college will accept no more than 9 credit hours of grades less than a C from any program outside the University of Nebraska system. Grades below a C can only be applied to general education requirements and elective classes.

Maximum Number of Hours for Transfer

Transfer courses are evaluated by the University and by the College to determine University of Nebraska–Lincoln and College course equivalencies. The College determines which courses will be accepted and how they will apply toward degree requirements. Sixty (60) is the maximum number of hours that will be accepted on transfer from a two-year college. Ninety (90) is the maximum number of hours that will be accepted on transfer from accredited four-year colleges and universities.

Courses taken 10 years before admission or readmission to the College will be evaluated by the major department to determine if it is appropriate to accept those courses for transfer credit and for application to degree requirements. Specific courses will be reviewed in keeping with the guidelines specified by each department.

Transfer Credit from Technical, Non-Accredited and Foreign Institutions

Students who desire to transfer from these institutions must have each course evaluated by the appropriate departmental representative. All rules stated above in reference to grades and maximum credit hours

apply. For additional information and guidance in this process, contact the Dean's Office.

Transfer Agreements with UNO and UNK

Transfer agreements between the three institutions within the University System allow for a smooth transition for students interested in taking courses from UNO, UNK, and/or the University of Nebraska–Lincoln. Although restrictions noted above on grades and maximum transfer hours still apply, there are some exceptions. For purposes of residency, courses from UNO and UNK fulfill these requirements. Students planning to major in a program in the college should read the specific requirements noted with individual programs. Questions about academic transfer should be addressed to the Advising Office.

Transfer Agreements with Community Colleges

Articulation agreements and "Transfer with Ease Programs" with Nebraska community colleges indicate how courses and programs will transfer to the University of Nebraska–Lincoln and the College of Education and Human Sciences. The same guidelines noted above on the acceptance of courses, grades, and hours also apply to these institutions. Students interested in transferring from a community college should consult with their school or the Student Services Center to determine which courses will transfer to fulfill specific College of Education and Human Sciences requirements.

Courses from accredited two-year institutions will generally not be substituted for 400-level human sciences classes in the College. The 300-level courses will be considered on an individual basis by the respective departments in the College of Education and Human Sciences.

Courses taken prior to course articulation agreements will be accepted contingent upon departmental validation of the credit.

Residency Rules

Students must earn a minimum of 120 credit hours to earn a degree.

All students are expected to complete at least 30 of their final 36 hours of credit at the University of Nebraska–Lincoln, University of Nebraska Omaha, or University of Nebraska at Kearney.

Degree Application Process

Graduation Requirements

Students are expected to develop a clear understanding of degree requirements and to plan their course of study with a College advisor. Students requiring clarification of outstanding degree requirements should visit with a College advisor promptly.

Students should access their Degree Audit via MyRED at least once each term to review degree requirements and progress toward graduation. It is the student's responsibility to make sure their Degree Audit accurately reflects their current College and program of study.

Students who believe their Degree Audit has errors or omissions should visit with a College advisor promptly. It is important that you resolve these matters as soon as practicable to avoid a delay in graduation.

Each student with MyRED access must submit an online Application for Graduation via MyRED for each degree to be received by:

- The fourth Friday in January for May graduation
- The second Friday in June for August graduation
- The second Friday in September for December graduation



Students submitting an electronic Application for Graduation via MyRED will be billed a \$25.00 per degree fee on their student account. Students without MyRED access may apply for graduation in person at Husker Hub in the Canfield Administration Building, or by mail. Applications for graduation submitted in person or by mail must be accompanied by a check or money order in the amount of \$25.00 payable to the University of Nebraska–Lincoln. Failure to submit a timely Application for Graduation may preclude the awarding of a degree in the intended term.

Your Application for Graduation and required \$25.00 fee are good only for the term marked on your application. Neither your application nor your fee are transferrable to another term. If you submit an Application for Graduation and pay the \$25.00 fee for a specified term but do not complete your degree requirements in that term, you will need to reapply to graduate in a future term and incur another \$25.00 fee.

Commencement ceremony information will be emailed to all degree applicants approximately one month before graduation. Each student who has applied for graduation must submit an online Commencement Attendance Form via MyRED, which will be available when the informational email is distributed.

Only those students who have applied for graduation, had the application accepted, and fulfilled all degree requirements as of the last day of the academic term may participate in the commencement ceremony for that term. Because the University of Nebraska–Lincoln has a commencement for each term, ceremony participation is allowed only in the term during which the student has properly and timely applied for graduation and fulfilled degree requirements.

Catalog Rule

Students are responsible for following the rules, policies, and requirements found in the University of Nebraska–Lincoln Undergraduate Catalog for the academic year in which they were last admitted to a program in the College of Education and Human Sciences. Students must complete all program requirements from a single catalog year. In consultation with their advisor, a student may choose to move to and follow a subsequent catalog if it is in their best interest.

Learning Outcomes

Graduates of textile science will be able to:

1. Communicate ideas clearly and effectively in oral, visual, and written forms.
2. Apply processes and theories to solve problems in the textiles and apparel product life cycles.
3. Analyze and synthesize the cultural, behavioral, historical, and aesthetic dimensions of the global textiles and apparel industry.
4. Demonstrate ability to work effectively in group decision making contexts.
5. Use technologies relevant to research, product development, and innovation in the soft goods industry.

Option Requirements

ACE Requirements

ACE 1		
ENGL 150	Writing and Inquiry	3
or ENGL 151	Writing for Change	
ACE 2		

TMFD 144	Introduction to Design Theory and Criticism (Introductory Course)	3
ACE 3		
Select one of the following:		3
EDPS 459	Statistical Methods (Supporting Course)	3
STAT 218	Introduction to Statistics (Supporting Course)	
ACE 4		
CHEM 109A & CHEM 109L	General Chemistry I and General Chemistry I Laboratory (Supporting Course)	4
ACE 5		
TMFD 407	History of Dress (Common Completion Course)	3
or TMFD 408	Textiles, Technology and Culture	
ACE 6		
Select one of the following:		3-4
PSYC 181	Introduction to Psychology (Supporting Course)	3
SOCI 101	Introduction to Sociology (Supporting Course)	
ACE 7		
AHIS 101	Cave Paintings to Cathedrals (Supporting Course)	3
ACE 8		
ECON 200	Economic Essentials and Issues (Supporting Course)	3
ACE 9		
TMFD 123	Clothing and Society: You Are What You Wear (Introductory Course)	3
ACE 10		
TMFD 412	Product Development IV: Trend Analysis & Product Conceptualization (Common Completion Course)	3
Credit Hours Subtotal:		31
Introductory & Common Completion Courses		
TMFD 104	Computer Basics for TMFD	1
TMFD 112	Apparel Analysis & Construction	3
TMFD 123	Clothing and Society: You Are What You Wear	3
TMFD 144	Introduction to Design Theory and Criticism	3
TMFD 145	Technical Design & Color	3
TMFD 146	Visualization Studio	3
TMFD 206	Textiles	3
TMFD 212	Product Development for the Apparel Industry	3
TMFD 213	Merchandising I: Textile and Apparel Industry	3
TMFD 405	Advanced Textiles	3
TMFD 406	Textile Testing and Evaluation	3
TMFD 407	History of Dress	3
TMFD 410 / WMNS 410A	Body, Dress and Identity	3
TMFD 412	Product Development IV: Trend Analysis & Product Conceptualization	3

TMFD 422	International Textile and Apparel Sourcing	3
TMFD 492	Professional Study Tour-International or Domestic	3
or TMFD 495	Internship	
Credit Hours Subtotal:		34

Supporting Courses

AHIS 102	Renaissance to Modern Art	3
CHEM 110A & CHEM 110L	General Chemistry II and General Chemistry II Laboratory	4
CHEM 221A & CHEM 221L	Elementary Quantitative Analysis and Elementary Quantitative Analysis Laboratory	5
CHEM 251 & CHEM 253	Organic Chemistry I and Organic Chemistry I Laboratory	4
or CHEM 261 & CHEM 263	Mechanistic Organic Chemistry I and Mechanistic Organic Chemistry I Laboratory	

NOTE: A student cannot receive credit for both the 250s and 260s class sequence as they are duplicates. See Advisor for Minor in CHEM.

Select one of the following: 3-5

MATH 101	College Algebra	
MATH 104	Applied Calculus	
MATH 106	Calculus I	

Select one of the following: 3

COMM 286	Business and Professional Communication	
JGEN 120	Basic Business Communication	
JGEN 200	Technical Communication I	

Select 6 hours from any of the following areas:¹ 6

ACCT, BLAW, CHEM, CSCE, ECON, ENTR, FINA, MATH, MNGT, MRKT, PHYS		
Credit Hours Subtotal:		28

Professional Textile Courses

TMFD 428	Coloration	3
TMFD 499	Undergraduate Research	3

Select 6 hours of the following: 6

TMFD 216	Apparel Design by Flat Pattern	
TMFD 313	Merchandising II: Merchandise Buying and Control	
TMFD 407	History of Dress	
TMFD 408	Textiles, Technology and Culture	
TMFD 413	Merchandising III: Textiles & Apparel Merchandise Development & Retail Strategies	
TMFD 420	Launch a Product in a Semester	
TMFD 425	Advanced Design for Printed Textiles	
TMFD 492	Professional Study Tour-International or Domestic	
TMFD 493	Domestic Study Tour	
TMFD 495	Internship	
Credit Hours Subtotal:		12

Electives

Select 14-17 hours of Electives 14-17

Credit Hours Subtotal:	15
Total Credit Hours	120

¹ ECON 200 may not apply toward this requirement.

ACE Requirements

All UNL students will be required to complete a minimum of 3 hours of approved coursework in each of the 10 designated Achievement-Centered Education (ACE) student learning outcome areas. These can be viewed at <http://ace.unl.edu>. Students will be provided a list of classes they can select from to meet each of the 10 ACE Student Learning Outcomes (SLO). There may be required courses within an education option program that will also satisfy ACE requirements. Therefore, it is highly recommended that students contact their advisor prior to registering for ACE classes in order to ensure that each of the class selections are in the best interest of the students' academic program.

Minor Requirements

Students may receive a minor in chemistry (24 hrs), hospitality, restaurant and tourism management (19 hrs) or a business minor (18 hrs). Minors may also be taken in Global Studies or in Women's and Gender Studies. The student should see their advisor for more information.

Additional Major Requirements**Grade Rules****Pass/No Pass**

No required coursework in the textiles, merchandising and fashion design department can be taken Pass/No Pass by textiles, merchandising and fashion design majors. Should a student have earned a Pass in one of the courses prior to starting the option, the Pass will be reviewed. All courses for the degree (except electives) must be taken for a letter grade.

Substitution and Waiver Forms

Substitution and waiver forms must be processed prior to the semester of graduation and must be processed prior to enrolling in the substituted course. All course prerequisites must be met prior to enrollment.

Internship or Study Tour Requirement

All students are required to participate in either an internship or study tour experience, or both, during their program. Internships are qualified by a minimum GPA requirement. Textiles, merchandising and fashion design majors have the opportunity to study abroad at institutions such as the American Intercontinental University in London, for both the summer and semester education abroad programs.

Requirements for Minor Offered by Department*REQUIRED COURSES FOR TEXTILE SCIENCE*

TMFD 206	Textiles	3
TMFD 405	Advanced Textiles	3
TMFD 406	Textile Testing and Evaluation	3
TMFD 428	Coloration	3

Select one or more from the following: 3

TMFD 121	Visual Communication with Animation	
TMFD 123	Clothing and Society: You Are What You Wear	

TMFD 144	Introduction to Design Theory and Criticism
TMFD 407	History of Dress
TMFD 410 / WMNS 410A	Body, Dress and Identity
TMFD 420	Launch a Product in a Semester
TMFD 477 / WMNS 477	Gender and Material Culture
TMFD 492	Professional Study Tour-International or Domestic
TMFD 493	Domestic Study Tour

Grade Rules

C- and D Grades

Only grades of C or above will count toward graduation requirements for TMFD courses.

Pass/No Pass

No TMFD course can be taken Pass/No Pass.

TMFD 104 Computer Basics for TMFD

Description: Computer aided design software functions and processes specific to textiles, merchandising and fashion design. Introduction to design software at the basic level.

Credit Hours: 1

Max credits per semester: 1

Max credits per degree: 1

Grading Option: Graded with Option

Prerequisite for: TMFD 325

TMFD 112 Apparel Analysis & Construction

Description: Introduction to the apparel production industry. Understanding and analysis of apparel quality. Technical experience in sewing, apparel construction, and finishing.

Credit Hours: 3

Max credits per semester: 3

Max credits per degree: 3

Grading Option: Graded

Offered: FALL/SPR

Prerequisite for: TMFD 216

Course and Laboratory Fee: \$80

Experiential Learning: Case/Project-Based Learning

TMFD 121 Visual Communication with Animation

Notes: Non-majors only.

Description: An introduction to animation and design fundamentals and their application in visual communications. Problems and solutions will be explored relative to the needs of various professions that use images and animations to convey meaning.

Credit Hours: 3

Max credits per semester: 3

Max credits per degree: 3

Grading Option: Graded

ACE: ACE 2 Communication Competence

Experiential Learning: Creative Activity

TMFD 123 Clothing and Society: You Are What You Wear

Description: Analysis of social, cultural, aesthetic, and economic influences on clothing and human behavior.

Credit Hours: 3

Max credits per semester: 3

Max credits per degree: 3

Grading Option: Graded with Option

ACE: ACE 9 Global/Diversity

TMFD 123H Honors: Clothing and Human Behavior

Prerequisites: Good standing in the University Honors Program or by invitation. Credit toward the degree cannot be earned in both TMFD 123 and TMFD 123H.

Description: Analysis of social, cultural, aesthetic, and economic influences on clothing and human behavior.

Credit Hours: 3

Max credits per semester: 3

Max credits per degree: 3

Grading Option: Graded

TMFD 144 Introduction to Design Theory and Criticism

Description: Describe, analyze, interpret and evaluate two and three dimensional design forms.

Credit Hours: 3

Max credits per semester: 3

Max credits per degree: 3

Grading Option: Graded with Option

Prerequisite for: TMFD 312; TMFD 314

ACE: ACE 2 Communication Competence

TMFD 145 Technical Design & Color

Description: Technical design and color using computer aided design (CAD) processes for fashion and merchandising professions. Introduction to 2D and 3D CAD software and color theory concepts.

Credit Hours: 3

Max credits per semester: 3

Max credits per degree: 3

Grading Option: Graded with Option

Offered: SPRING

Prerequisite for: TMFD 312; TMFD 314

Course and Laboratory Fee: \$100

TMFD 146 Visualization Studio

Description: Develop perceptual and analytical drawing skills through visual problem solving using various media and techniques. Emphasis on developing skills applicable to fashion and textile representation.

Credit Hours: 3

Max credits per semester: 3

Max credits per degree: 3

Grading Option: Graded with Option

Prerequisite for: TMFD 312; TMFD 314

Course and Laboratory Fee: \$45

TMFD 206 Textiles

Prerequisites: Sophomore standing.

Description: Fibers, yarns, fabric construction, and finishes as they affect use and care.

Credit Hours: 3

Max credits per semester: 3

Max credits per degree: 3

Grading Option: Graded with Option

ACE: ACE 4 Science

Course and Laboratory Fee: \$10

Experiential Learning: Case/Project-Based Learning

TMFD 212 Product Development for the Apparel Industry

Description: Technical experience in apparel product development including market research, design development, garment specifications, garment evaluation, sourcing, costing & implications for production.

Credit Hours: 3

Max credits per semester: 3

Max credits per degree: 3

Grading Option: Graded with Option

Offered: SPRING

Prerequisite for: TMFD 216; TMFD 312

Course and Laboratory Fee: \$20

Experiential Learning: Case/Project-Based Learning

TMFD 213 Merchandising I: Textile and Apparel Industry

Description: Textile and apparel industry processes. Social, cultural, and economic influences on the industry including entrepreneurship.

Credit Hours: 3

Max credits per semester: 3

Max credits per degree: 3

Grading Option: Graded with Option

Experiential Learning: Case/Project-Based Learning

TMFD 216 Apparel Design by Flat Pattern

Prerequisites: TMFD 112 and TMFD 212

Description: Creative experience in apparel design through the use of flat pattern methods.

Credit Hours: 3

Max credits per semester: 3

Max credits per degree: 3

Grading Option: Graded with Option

Prerequisite for: TMFD 325

Course and Laboratory Fee: \$30

TMFD 250 Creative Direction, Styling, & Fashion Events

Description: Conceptual and practical experience in styling, creative direction, and event production for the apparel and fashion industry. Includes the strategic selection and combination of apparel and accessories, the creation of narratives which support apparel design through styling, posing, and photo composition, and the production of events which resonate with today's fashion consumer.

Credit Hours: 3

Max credits per semester: 3

Max credits per degree: 3

Grading Option: Graded

Offered: FALL

Experiential Learning: Creative Activity

TMFD 312 Product Development III: Fashion Analysis and Presentation

Prerequisites: TMFD major. TMFD 144, TMFD 145, TMFD 146, and TMFD 212.

Description: Drawing garments and the fashion figure. Aesthetic styling and presentation, refining product specifications, and interpretations of current trends. Intermediate application of computer-aided design in flat drawings and visual presentations.

Credit Hours: 3

Max credits per semester: 3

Max credits per degree: 3

Grading Option: Graded with Option

Prerequisite for: TMFD 495

Course and Laboratory Fee: \$20

TMFD 313 Merchandising II: Merchandise Buying and Control

Prerequisites: 3 hrs MATH or STAT

Description: Role and responsibilities of apparel and/or home furnishings merchandisers in a retail operation. Fundamentals of merchandise mathematics and its application to computer technology.

Credit Hours: 3

Max credits per semester: 3

Max credits per degree: 3

Grading Option: Graded with Option

Prerequisite for: TMFD 495

TMFD 314 Textiles and Apparel Merchandising and Promotion

Prerequisites: TMFD 144, TMFD 145, and TMFD 146

Description: Store and non-store visual merchandising and promotion for textiles and apparel. Includes strategies for branding and target market in both real and virtual platforms.

Credit Hours: 3

Max credits per semester: 3

Max credits per degree: 3

Grading Option: Graded with Option

Prerequisite for: TMFD 495

Course and Laboratory Fee: \$60

TMFD 325 Digital Apparel Design Studio

Prerequisites: TMFD 104 & TMFD 216

Description: Acquire expertise in digital techniques for apparel design, including proficiency in digital 2D flat pattern tools and 3D fit analysis for garment creation.

Credit Hours: 3

Max credits per semester: 3

Max credits per degree: 3

Grading Option: Graded with Option

Course and Laboratory Fee: \$225

TMFD 399 Independent Study

Description: Readings in current literature and individual problems.

Credit Hours: 1-5

Min credits per semester: 1

Max credits per semester: 5

Max credits per degree: 5

Grading Option: Graded with Option

TMFD 403 Apparel Design by Draping

Crosslisted with: TMFD 803

Prerequisites: TMFD 212 & TMFD 216 for TMFD 403 ONLY

Description: Creative experience in designing apparel through the use of draping techniques.

Credit Hours: 3

Max credits per semester: 3

Max credits per degree: 3

Grading Option: Graded with Option

Prerequisite for: TMFD 471, TMFD 871; TMFD 495; TMFD 823

Course and Laboratory Fee: \$25

**TMFD 405 Advanced Textiles****Crosslisted with:** TMFD 805**Prerequisites:** Prerequisite for TMFD 405 ONLY: TMFD 206; CHEM 105A and 105L or CHEM 109A and 109L or CHEM 113A and 113L.**Description:** Recent advances in the production and performance of fibers, yarns, finishes and dyes for textile products. Lab experiences designed to familiarize the students with standards, methods and equipment for evaluating textile product performance.**Credit Hours:** 3**Max credits per semester:** 3**Max credits per degree:** 3**Grading Option:** Graded with Option**Prerequisite for:** TMFD 495**TMFD 406 Textile Testing and Evaluation****Crosslisted with:** TMFD 806**Prerequisites:** TMFD 206 required for TMFD 406 only**Description:** Physical and chemical analysis of textiles using standard testing procedures. The calculation, interpretation, and evaluation of test results.**Credit Hours:** 3**Max credits per semester:** 3**Max credits per degree:** 3**Grading Option:** Graded with Option**Prerequisite for:** TMFD 495**TMFD 407 History of Dress****Crosslisted with:** TMFD 807**Prerequisites:** Junior standing, AHIS 101 or 102 or 3 hrs HIST 130 or 131 for TMFD 407 ONLY**Description:** Theoretical approach to the history of dress from ancient times through the twentieth century; examining dress in the context of social, economic, and artistic development of Western culture.**Credit Hours:** 3**Max credits per semester:** 3**Max credits per degree:** 3**Grading Option:** Graded with Option**Prerequisite for:** TMFD 876, ANTH 883**ACE:** ACE 5 Humanities**TMFD 408 Textiles, Technology and Culture****Crosslisted with:** TMFD 808**Prerequisites:** TMFD 408: Junior standing, TMFD 206, AHIS 101 or 102 or 3 hrs HIST 130 or 131. Undergraduate Only.**Description:** Textiles in the context of social, technical, political, aesthetic, and economic developments in the cultures of Europe, Asia, the Middle East, Africa and the Americas. Emphasis is placed on the relationship between social, technical, and aesthetic qualities of textiles, and their transformations, as well as stylistic similarities and differences across cultural and historical contexts.**Credit Hours:** 3**Max credits per semester:** 3**Max credits per degree:** 3**Grading Option:** Graded with Option**Prerequisite for:** TMFD 876, ANTH 883**ACE:** ACE 5 Humanities**TMFD 410 Body, Dress and Identity****Crosslisted with:** TMFD 810, WMNS 410A, WMNS 810A**Prerequisites:** TMFD 410 ONLY: Junior or Senior standing; 3hrs PSYC or SOCI; TMFD 123.**Description:** Theories and research findings about the social, cultural, and psychological aspects of clothing and appearance in relation to the self and others. Special emphasis will be placed on relationship(s) between the body, dress, and personal and social identities.**Credit Hours:** 3**Max credits per semester:** 3**Max credits per degree:** 3**Grading Option:** Graded with Option**Offered:** SPRING**Prerequisite for:** TMFD 910**TMFD 412 Product Development IV: Trend Analysis & Product Conceptualization****Crosslisted with:** TMFD 812**Prerequisites:** SR Standing; For Merch and Textile and Apparel Design option: TMFD312, MRKT300 & 6 hrs from following: ACCT200, ECON200, BLAW300, FINA300, MNGT300. For Textile Sci & Textile, Merch & Fashion Design Comm option: TMFD312 & ECON200. for TMFD412 undrgrd only
Description: Synthesis of process involved in product development from product initiation to the development of market strategies. Career and portfolio development.**Credit Hours:** 3**Max credits per semester:** 3**Max credits per degree:** 3**Grading Option:** Graded with Option**Offered:** FALL**ACE:** ACE 10 Integrated Product**TMFD 413 Merchandising III: Textiles & Apparel Merchandise Development & Retail Strategies****Crosslisted with:** TMFD 813**Prerequisites:** ACCT 200 or 201 or 201H, MKRT 300 or 341 or 341H, TMFD 313 and 314; for Undergraduate ONLY.**Description:** Problems involved in consumer decision making, merchandise development and planning, retail strategies, and marketing practices specific to the textile and apparel industry.**Credit Hours:** 3**Max credits per semester:** 3**Max credits per degree:** 3**Grading Option:** Graded with Option**Prerequisite for:** TMFD 907; TMFD 913**TMFD 416 Apparel Design for Industry****Crosslisted with:** TMFD 816**Prerequisites:** TMFD 212, 216 and 403.**Notes:** Creative experience.**Description:** Designing apparel, computer-aided design, pattern making, and line development for specific markets.**Credit Hours:** 3**Max credits per semester:** 3**Max credits per degree:** 6**Grading Option:** Graded with Option**Prerequisite for:** TMFD 495; TMFD 823**Course and Laboratory Fee:** \$20

TMFD 420 Launch a Product in a Semester**Crosslisted with:** TMFD 820**Prerequisites:** Undergraduate only TMFD 212; Jr. standing or above**Description:** Small business start-up, launching products within organizations or setting new growth strategies in a short period of time. Emphasis on knowledge of entrepreneurial management and development strategies and growth in team-work settings.**Credit Hours:** 3**Max credits per semester:** 3**Max credits per degree:** 3**Grading Option:** Graded**Offered:** SPRING**Experiential Learning:** Case/Project-Based Learning**TMFD 422 International Textile and Apparel Sourcing****Crosslisted with:** TMFD 822**Prerequisites:** Senior Standing and TMFD 313 for TMFD 422 ONLY**Description:** Comprehensive study of issues involved in global sourcing, including the scope, trends, and sustainability of current practices. An analysis of cultural, political, ethical, and economic perspectives related to global sourcing, production, trade and distribution of textiles and apparel products.**Credit Hours:** 3**Max credits per semester:** 3**Max credits per degree:** 3**Grading Option:** Graded with Option**TMFD 425 Advanced Design for Printed Textiles****Crosslisted with:** TMFD 825**Prerequisites:** TMFD 145 & TMFD 146 for Undergraduate Only;**Description:** Digital and other media for printed textiles. Design development, professional practices, and expressive and communicative concepts.**Credit Hours:** 3**Max credits per semester:** 3**Max credits per degree:** 3**Grading Option:** Graded with Option**Prerequisite for:** TMFD 495**Course and Laboratory Fee:** \$50**TMFD 428 Coloration****Crosslisted with:** TMFD 828**Prerequisites:** 4 hrs CHEM and TMFD 206, for TMFD 428 (undergraduate) ONLY**Description:** Application classes of dyes. Physical and chemical properties of dyes within each class, methods of dye-fiber association, fastness properties of dyes, and recommended application procedures.**Credit Hours:** 3**Max credits per semester:** 3**Max credits per degree:** 3**Grading Option:** Graded with Option**TMFD 471 Experimental Apparel Design****Crosslisted with:** TMFD 871**Prerequisites:** TMFD 803 for Graduate Level Course Only.**Description:** Advanced work in the creation of apparel as visual communication. Design conceptualization with experimentation in media, structure, technique, and presentation.**Credit Hours:** 3**Max credits per semester:** 3**Max credits per degree:** 6**Grading Option:** Graded with Option**Prerequisite for:** TMFD 495**Course and Laboratory Fee:** \$35**TMFD 477 Gender and Material Culture****Crosslisted with:** TMFD 877, WMNS 477, WMNS 877**Prerequisites:** Junior Standing; 3 hours in any of the following areas: ANTH, SOCI, HIST, AHIS, TMFD or WMNS.**Description:** In depth analysis of the relationship between material culture and gender roles, categories, and performances. Engages with theoretical frameworks for material culture and gender, as well as topics such as the body, clothing, the built environment, technology and media.**Credit Hours:** 3**Max credits per semester:** 3**Max credits per degree:** 3**Grading Option:** Graded with Option**TMFD 490 Workshop/Seminar****Prerequisites:** Permission.**Notes:** Presented by department faculty and visiting artists, scholars and scientists.**Description:** Opportunity to analyze and evaluate techniques, develop skills, or study topics of special interest.**Credit Hours:** 1-3**Min credits per semester:** 1**Max credits per semester:** 3**Max credits per degree:** 9**Grading Option:** Graded with Option**TMFD 490A Workshop/Seminar - Textiles****Crosslisted with:** TMFD 890A**Description:** Workshops on a variety of topics by department faculty and visiting artists, scholars and scientists. Opportunity to analyze and evaluate techniques, develop skills, or study topics of special interest.**Credit Hours:** 1-3**Min credits per semester:** 1**Max credits per semester:** 3**Max credits per degree:** 3**Grading Option:** Graded with Option**TMFD 490B Workshop/Seminar - Fashion****Crosslisted with:** TMFD 890B**Description:** Workshops on a variety of topics by department faculty and visiting artists, scholars and scientists. Opportunity to analyze and evaluate techniques, develop skills, or study topics of special interest.**Credit Hours:** 1-3**Min credits per semester:** 1**Max credits per semester:** 3**Max credits per degree:** 3**Grading Option:** Graded with Option**TMFD 490D Workshop/Seminar - Design****Crosslisted with:** TMFD 890D**Description:** Workshops on a variety of topics by department faculty and visiting artists, scholars and scientists. Opportunity to analyze and evaluate techniques, develop skills, or study topics of special interest.**Credit Hours:** 1-3**Min credits per semester:** 1**Max credits per semester:** 3**Max credits per degree:** 3**Grading Option:** Graded with Option

TMFD 492 Professional Study Tour-International or Domestic**Crosslisted with:** TMFD 892**Prerequisites:** 12 hrs TMFD courses and permission for TMFD 892 only.**Description:** The textile and apparel industry. Visits to museums, showrooms, manufacturers, retail establishments in major domestic and/or foreign markets such as: New York City, Paris, London, Milan, Prague, Shanghai, Seoul.**Credit Hours:** 3**Max credits per semester:** 3**Max credits per degree:** 9**Grading Option:** Graded with Option**Experiential Learning:** Fieldwork**TMFD 493 Domestic Study Tour****Crosslisted with:** TMFD 893**Prerequisites:** 12 hrs. TMFD courses.**Notes:** The credit hours for this course will be determined by the length of the study tour. Tours of 3-4 days will be for 1 credit and 5-8 will be for 2 credits. Students may repeat this course for credit.**Description:** The apparel, accessories and soft goods marketplaces and manufacturing throughout the U.S. provide excellent arenas for learning. Short domestic study tours including but not limited to such centers of soft good commerce as Las Vegas, Minneapolis/St. Paul, Chicago, Dallas/Ft. Worth and other regional locations.**Credit Hours:** 1-2**Min credits per semester:** 1**Max credits per semester:** 2**Max credits per degree:** 4**Grading Option:** Graded**TMFD 495 Internship****Prerequisites:** TMFD Jr. standing, min. 2.75 GPA in TMFD courses; any prereqs that are required for specific option. Merch:TMFD 313 & 314. Textile Sci:TMFD 405 or 406. Comm:TMFD 312. Textile & Apparel Design:TMFD 403 & one of the following; TMFD 416, TMFD 425 or 471**Notes:** Requires an application for the internship with the TMFD department and with the employer. Letter Grade only.**Description:** Supervised individual professional experience with a qualified cooperative practicing professional.**Credit Hours:** 3**Max credits per semester:** 3**Max credits per degree:** 3**Grading Option:** Graded**Experiential Learning:** Internship/Co-op**TMFD 496 Independent Study****Crosslisted with:** TMFD 896**Prerequisites:** 12 hrs TMFD courses and permission for TMFD 896 only.**Description:** Individual projects in research, literature review, or creative production.**Credit Hours:** 1-5**Min credits per semester:** 1**Max credits per semester:** 5**Max credits per degree:** 5**Grading Option:** Graded with Option**TMFD 496A Independent Study - Textiles****Crosslisted with:** TMFD 896A**Prerequisites:** 12 hrs TMFD courses and permission for TMFD 896 only.**Description:** Individual projects in research, literature review, or creative production.**Credit Hours:** 1-5**Min credits per semester:** 1**Max credits per semester:** 5**Max credits per degree:** 5**Grading Option:** Graded with Option**TMFD 496B Independent Study - Fashion****Crosslisted with:** TMFD 896B**Prerequisites:** 12 hrs TMFD courses and permission for TMFD 896 only.**Description:** Individual projects in research, literature review, or creative production.**Credit Hours:** 1-5**Min credits per semester:** 1**Max credits per semester:** 5**Max credits per degree:** 5**Grading Option:** Graded with Option**TMFD 496D Independent Study - Design****Crosslisted with:** TMFD 896D**Prerequisites:** 12 hrs TMFD courses and permission for TMFD 896 only.**Description:** Individual projects in research, literature review, or creative production.**Credit Hours:** 1-5**Min credits per semester:** 1**Max credits per semester:** 5**Max credits per degree:** 5**Grading Option:** Graded with Option**TMFD 499 Undergraduate Research****Prerequisites:** Senior standing.**Credit Hours:** 1-6**Min credits per semester:** 1**Max credits per semester:** 6**Max credits per degree:** 6**Grading Option:** Graded with Option