Design Development and Presentation
Fall, Spring. 3(0-6) P: ATD 222 or ATD 332 and Understanding of how to use a personal computer and web browsers. Technological exploration and creation of designs, technical drawings, storyboard presentations, and electronic portfolio.

Textile Design Technology
Fall, Spring. 3(0-6) P: STA 110 and STA 112 and STA 115 and STA 114 SA: HED 121 or concurrently. Fundamentals of apparel structuring. Students enrolled in the course may complete the course requirements by passing a competency exam.

Apparel Pattern Design
Fall, Spring. 3(0-6) P: ATD 111 and (ATD 121 or concurrently) RB: Basic apparel construction. SA: HED 222 or concurrently. Advanced methods of apparel assembly and fabric handling. Creative application of assembly techniques; tailoring and couture methods.

Textile Materials
Fall, Spring. 4(4-0) SA: HED 231 or concurrently. Fundamentals of fibers, yarns, structure, finish, color and design of fabrics. Textile specification and selection for end-use performance.

Apparel Pattern Design
Fall, Spring. 3(0-6) P: ATD 222 and (ATD 121 or concurrently) RB: (ATD 231) and basic apparel construction. SA: HED 323 or concurrently. Pattern design from standard templates and body measurements. Introduction to design studio environment. Creation of original designs.

Design by Draping
Spring. 3(0-6) P: ATD 222 and ATD 231 and (ATD 323 or concurrently) RB: Basic apparel construction, textile materials, and pattern drafting. SA: HED 323 or concurrently. Execution of original designs by fabric manipulation on a form. Evaluation of fit, drape, and balance.

Textile Design
Fall, Spring. 3(0-6) RB: (ATD 231 and ATD 335) and Basic apparel construction, textile materials, and pattern drafting R: Not open to freshmen. SA: HED 232. Textile design technology for surface design, knit and woven fabric development. Design organization, elements and principles.

Design Development and Presentation
Fall, Spring. 3(0-6) P: ATD 121 RB: (ATD 222 and ATD 332) and Understanding of how to use a personal computer and web browsers. Technological exploration and creation of designs, technical drawings, storyboard presentations, and electronic portfolio.

Design-Methods and Approaches
Fall. 3(0-6) A student may earn a maximum of 6 credits in all enrollments for this course. P: ATD 323 RB: Basic construction, pattern design, and draping. Research and execution of original apparel design across a variety of platforms and experimental approaches.

Senior Project in Design Methods and Approaches
Fall. 3(0-6) RB: Basic construction, pattern design, and draping R: Open to seniors in the Apparel and Textile Design major. Approval of department. C: ATD 423 concurrently. Intensive research project focused on conceptual issues in design.

Specialized Design
Spring. 3(0-6) P: ATD 323 RB: Basic construction, pattern design, and draping. SA: HED 424 or concurrently. Implications of innovative technologies for the future of design, art, and manufacturing. Utilization of technologies to create innovative and highly complex designs. Practical experiences within technologies. Workflow scenarios including concept, drafting, modeling, production, and presentation.

History of Dress and Textiles
Fall, Spring. 3(0-6) SA: HED 426 or concurrently. History of dress and textiles as a reflection of the cultural milieu.

Knitwear Design
Fall. 3(0-6) A student may earn a maximum of 6 credits in all enrollments for this course. P: ATD 323 RB: Basic construction, pattern design and draping. Fundamentals of knitwear design. Patternmaking and assembly techniques for cut-and-sew and full-fashioned knitswear.

Senior Project in Knitwear Design
Fall. 3(0-6) RB: Basic construction and pattern design R: Open to seniors in the Apparel and Textile Design major. Approval of department. C: ATD 427 concurrently. Intensive research project focused on knitwear design.

Design Studio
Spring. 3(0-6) A student may earn a maximum of 6 credits in all enrollments for this course. P: ATD 323 RB: Apparel construction, pattern design, and draping. Execution of original apparel designs for a collection and exhibition.

Senior Project in Design Studio
Spring. 3(0-6) RB: Apparel construction, pattern design, and draping R: Open to seniors in the Apparel and Textile Design major. Approval of department. C: ATD 428 concurrently. Intensive research project focused on individual collections and exhibition of design.

Dress, Culture and Human Behavior
Spring. 3(0-6) R: Not open to freshmen or sophomores. Dress as an expression of self and reflection of society and global cultures. Effect of dress on human behavior at the personal, interpersonal, and social organizational levels.

Global Context for Sustainable Design
Fall. 3(0-6) R: Not open to freshmen or sophomores. SA: HED 431 or concurrently. Global patterns of apparel and textile production, distribution, and consumption. Employment practices and international trade policy. Natural resource use and its impact on sustainable design. Design process for sustainable apparel design.

Portfolio Development and Exhibition
Fall. 3(0-6) P: (ATD 323) and completion of Tier I writing requirement. SA: HED 439 or concurrently. Apparel and textile design philosophies, roles and ethics. Professional portfolio and exhibition(s). Capstone course.

Independent Study
Fall, Spring. 1 to 6 credits. A student may earn a maximum of 6 credits in all enrollments for this course. R: Not open to freshmen or sophomores. Approval of department. SA: HED 490 or concurrently. Independent study of selected topics in apparel and textile design.

Honors Independent Study
Fall, Spring. 1 to 10 credits. A student may earn a maximum of 10 credits in all enrollments for this course. R: Open to students in the Honors College. Approval of department. SA: HED 490H or concurrently. Independent study of selected topics in apparel and textile design.

Special Topics in Apparel
Fall, Spring. 1 to 3 credits. A student may earn a maximum of 9 credits in all enrollments for this course. R: Not open to freshmen or sophomores. Approval of department. Special topics supplementing regular course offerings.

Special Topics in Textiles
Fall, Spring. 1 to 3 credits. A student may earn a maximum of 9 credits in all enrollments for this course. R: Not open to freshmen or sophomores. Approval of department. Special topics supplementing regular course offerings.

Senior Project in Special Topics: Textiles
Fall, Spring. 3(0-6) RB: Basic textile design R: Open to seniors in the Apparel and Textile Design major. Approval of department. C: ATD 491T or concurrently. Intensive research project focused on individual textile design.

Internship in Apparel and Textiles
Fall, Spring. Summer. 1 to 6 credits. A student may earn a maximum of 6 credits in all enrollments for this course. RB: ATD 323 and ATD 332 R: Approval of department. SA: HED 493B or concurrently. Pre-professional experience in a selected business, industry, or community organization.