

# TEXTILE DESIGN (TXD)

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## **TXD 600: Nonwovens Fabrication & Design**

**Credits:** 3

**College:** School of Design & Engineering

**Schedule Type:** Lecture/Lab

## **TXD 615: Design Studio I-A**

Focuses on design research as an essential beginning for textile design studio work. Students in all concentrations will work on common projects and, toward the end of the semester, take their research work into design work specific to their concentration.

**Credits:** 3

**College:** School of Design & Engineering

**Schedule Type:** Lecture, Lecture/Studio Combination, Studio

## **TXD 616: Design Studio I-B**

This initial course will be delivered through lecture/studio sessions and will ensure that the student gains increasingly advanced knowledge of the technical/design aspects of knit, print or weave design. Within TXD616 and TXD617, projects will be devised to integrate the knowledge and practice gained through design and technical courses, with the development of individual creative design work in the chosen concentration (knit, weave or print).

**Credits:** 3

**College:** School of Design & Engineering

**Schedule Type:** Studio

## **TXD 617: Design Studio I-C**

This initial course will be delivered through lecture/studio sessions and will ensure that the student gains increasingly advanced knowledge of the technical/design aspects of knit, print or weave design. Within TXD616 and TXD617, projects will be devised to integrate the knowledge and practice gained through design and technical courses, with the development of individual creative design work in the chosen concentration (knit, weave or print).

**Credits:** 3

**College:** School of Design & Engineering

**Schedule Type:** By Appointment - 1 student, Studio

## **TXD 625: Seminar**

Weekly seminars will be arranged during the first semester, to which visiting speakers will be invited to give presentations on topics covering the national and international perspectives of marketing, technology and design in textile and related activities. Student participation will be expected during these seminars.

**Credits:** 0

**College:** School of Design & Engineering

**Schedule Type:** Hybrid, Lecture, On-Line

## **TXD 665: Design Management**

The aim of this course is to create an awareness of the factors involved in the process of innovation and design, and the importance of establishing a policy and strategy, which will ensure that the design process is effectively promoted and managed to assist in the achievement of organizational goals. At the end of the course, students will be able to: (a) relate the process of design to corporate and product strategy; (b) describe the nature of the tasks undertaken by industrial innovators and designers; (c) prepare a brief for a design project; (d) monitor and evaluate the progress of a design project. They will also become aware of (a) the contribution made to the design process by systematic techniques such as value analysis and by specialist support staff; (b) the factors affecting creativity and innovation; (c) the link between product and manufacturing system design; (d) the legal protections offered to designers.

**Credits:** 3

**College:** School of Design & Engineering

**Schedule Type:** Lecture

## **TXD 742: Design Studio II-A**

Studio work involving advanced-level technical/creative projects in the chosen design concentration (as in Design Studio I), and the opportunity for interdisciplinary work encouraging knit/print, weave/print or weave/knit coordination, will be carried out in the first part of the semester. Student design work at this point should progress from assigned projects to independent, student-directed work. Toward the end of the semester, reviews of student work will lead to the selection of a ?major project.? The aims and outcomes of this project will be written up in detail for submission to a faculty review committee. This project will form the basis of the final semester?s design work, thesis report and student exhibit for graduation.

**Credits:** 3

**College:** School of Design & Engineering

**Schedule Type:** Studio

## **TXD 743: Design Studio II-B**

Studio work involving advanced-level technical/creative projects in the chosen design concentration (as in Design Studio I), and the opportunity for interdisciplinary work encouraging knit/print, weave/print or weave/knit coordination, will be carried out in the first part of the semester. Student design work at this point should progress from assigned projects to independent, student-directed work. Toward the end of the semester, reviews of student work will lead to the selection of a ?major project.? The aims and outcomes of this project will be written up in detail for submission to a faculty review committee. This project will form the basis of the final semester?s design work, thesis report and student exhibit for graduation.

**Credits:** 3

**College:** School of Design & Engineering

**Schedule Type:** By Appointment - 1 student, Studio

**TXD 744: Design Studio II-C**

Studio work involving advanced-level technical/creative projects in the chosen design concentration (as in Design Studio I), and the opportunity for interdisciplinary work encouraging knit/print, weave/print or weave/knit coordination, will be carried out in the first part of the semester. Student design work at this point should progress from assigned projects to independent, student-directed work. Toward the end of the semester, reviews of student work will lead to the selection of a major project. The aims and outcomes of this project will be written up in detail for submission to a faculty review committee. This project will form the basis of the final semester's design work, thesis report and student exhibit for graduation.

**Credits:** 3**College:** School of Design & Engineering**Schedule Type:** Studio**TXD 749: Weave Technology II**

The variations, functions, auxiliary devices and design characteristics of dobby and Jacquard looms and the equipment used to support the weaving process will be studied. Calculations relating to production and materials will be considered, along with the accurate analysis of fabrics for weight and cover. Consideration will be given to size, texture, fiber type, weave and other fabric parameters. Advanced multilayered weaves will also be studied.

**Credits:** 3**College:** School of Design & Engineering**Schedule Type:** Lab, Lecture, Lecture/Lab**TXD 750: Knitting Technology**

A further investigation into the construction, design and production of both weft- and warp-knitted fabrics. Lectures will be complemented with lab work involving the design, production and analysis of knit fabric upon power-knitting equipment.

**Credits:** 3**College:** School of Design & Engineering**Schedule Type:** Lab, Lecture, Lecture/Lab**TXD 756: Advanced Jacquard**

The design and production of Jacquard fabrics will be studied. Students analyze designs and produce complex fabrics on commercial equipment using computerized design and production systems.

**Credits:** 3**College:** School of Design & Engineering**Schedule Type:** Lab, Lecture, Lecture/Lab, Lecture/Studio Combination**TXD 772: Design Studio III-A**

(a) Project The major project worked on independently by students during this final semester will be chosen to show the student's range of creative and technical ability. It will be concerned with a specialized area within their design concentration. Each project will be required to encompass: (1) design ideas and extensive sketchbook development; (2) market research and technical notebooks; (3) print Croquis and/or fabrics in sample form, production fabrics, computer-aided designs and final product rendered designs. (b) Final Exhibit The student will be expected to mount a personal design exhibit showing the range of his/her abilities in either knit, weave or print design. The work will be professionally presented and displayed for judging by a panel of design faculty. An important outcome of this exhibit will be the opportunity for key industrial people to visit, and for possible career opportunities to result. A secondary outcome will be its inspirational impact on undergraduate design students within the University.

**Credits:** 3**College:** School of Design & Engineering**Schedule Type:** Studio**TXD 773: Design Studio III-B**

(a) Project The major project worked on independently by students during this final semester will be chosen to show the student's range of creative and technical ability. It will be concerned with a specialized area within their design concentration. Each project will be required to encompass: (1) design ideas and extensive sketchbook development; (2) market research and technical notebooks; (3) print Croquis and/or fabrics in sample form, production fabrics, computer-aided designs and final product rendered designs. (b) Final Exhibit The student will be expected to mount a personal design exhibit showing the range of his/her abilities in either knit, weave or print design. The work will be professionally presented and displayed for judging by a panel of design faculty. An important outcome of this exhibit will be the opportunity for key industrial people to visit, and for possible career opportunities to result. A secondary outcome will be its inspirational impact on undergraduate design students within the University.

**Credits:** 3**College:** School of Design & Engineering**Schedule Type:** Studio**TXD 774: Design Studio III-C**

(a) Project The major project worked on independently by students during this final semester will be chosen to show the student's range of creative and technical ability. It will be concerned with a specialized area within their design concentration. Each project will be required to encompass: (1) design ideas and extensive sketchbook development; (2) market research and technical notebooks; (3) print Croquis and/or fabrics in sample form, production fabrics, computer-aided designs and final product rendered designs. (b) Final Exhibit The student will be expected to mount a personal design exhibit showing the range of his/her abilities in either knit, weave or print design. The work will be professionally presented and displayed for judging by a panel of design faculty. An important outcome of this exhibit will be the opportunity for key industrial people to visit, and for possible career opportunities to result. A secondary outcome will be its inspirational impact on undergraduate design students within the University.

**Credits:** 2**College:** School of Design & Engineering**Schedule Type:** Studio**TXD 776: Textile Printing Technology**

A specialized and practical course in the principles, techniques and chemical processes involved in the printing of textiles. The chemistry and use of different dye classes and pigment systems; application printing; discharge, burnout and other styles; and the influence of thickeners, cloth preparation and fixation processes on quality and colorfastness are examined.

**Credits:** 3**College:** School of Design & Engineering**Schedule Type:** Lab, Lecture, Lecture/Lab**TXD 777: Advanced Computer-Aided Design**

This course focuses on both the conceptual and technical aspects of digital portfolio presentation for the textile designer. Students will use interactive media to create both a CD-ROM portfolio and a personal website. Course projects provide an in-depth exploration of Adobe Photoshop, Adobe Illustrator and multimedia design software. Students must have a clear understanding of Adobe Photoshop and Adobe Illustrator before enrolling in this course.

**Credits:** 3**College:** School of Design & Engineering**Prerequisites:** TXF 510 [Min Grade: C]**Schedule Type:** By Appointment, Lecture, Lecture/Lab, Studio

**TXD 780: Avd Drawn: Materials & Technq**

This course is designed to further develop the design student?s drawing abilities and creative thought process, while encouraging conceptual development and a deeper understanding of contemporary issues in art and design. This course will provide an in-depth exploration of line, color and materials using a variety of drawing tools while introducing a more conceptual approach to drawing. Students will participate in off-campus trips to galleries and museums.

**Credits:** 3

**College:** School of Design & Engineering

**Prerequisites:** DRAW 101 or VDRW 101 [Min Grade: D]

**Schedule Type:** Lecture, Lecture/Studio Combination, Studio

**TXD 791S: Internship**

**Credits:** 3

**College:** School of Design & Engineering

**Schedule Type:** Internship 3 Credits

**TXD 797: Selected Topics:**

**Credits:** 3

**College:** School of Design & Engineering

**Schedule Type:** Lecture

**TXD 798: Independent Study**

Students may select an independent project or research topic with the approval of the dean of the School of Engineering & Textiles.

**Credits:** 3

**College:** School of Design & Engineering

**Schedule Type:** Independent Study