

The Department of Textile Sciences, at the University of Manitoba, offers a program leading to the M.Sc. degree. Programs of study and research may pertain to:

- product development and evaluation of textile materials,
- consumer behaviour towards textile products,
- marketing of textile products,
- supply chain channel for the Canadian textile complex,
- medical/bio-defense textiles,
- nanofibrous materials.

Program Description

The Textile Sciences graduate program offers opportunities for in-depth study and technical and social dimensions of textile product development. The technical dimension includes research in the physical and chemical properties of textiles, and polymer science. The social dimension includes research in consumer behaviour toward textiles or textile products and marketing of textiles or textile products.

Research Interests

Faculty members are currently involved in research projects in many areas of the field. Research interests of faculty include:

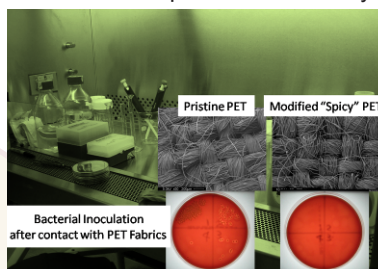
- attitudes, values and interests of selected groups toward clothing
- organizational and consumer decision-making for textile products
- application of theories in consumer behavior, marketing and economics to clothing-related phenomena
- clothing for older adults
- communication of apparel information to older consumers
- textile product development
- bio-protective textiles
- sensory, physical, and chemical attributes related to the selection and performance of textile products
- skin/fabric interactions and their impact on clothing comfort and skin lesions
- surface modification technique for chemically inert textiles for medical and biomedical applications



Research Facilities

The department has well equipped laboratories for the study of textiles and textile products. Space and equipment are available for chemical, physical, microscopic and sensory investigations of textiles, for polymer synthesis and textile surface modification, for textile product development research, and for the study of consumer behavior toward textile products. Special equipment includes an Instron tensile tester, an Atlas Fade-Ometer, a Nicolet iS10 FTIR spectroscopy, a Hunterlab colorimeter, a KES-SE Frictional Analyzer, a Porosimeter, a Tensiometer, a Electrospinnerna nd a range of flammability, thermal comfort testers.

A computer-aided design laboratory houses computers equipped with an industry-standard software system for textile product development. Campus facilities contribute to a quality environment for research. Students in the department have access to the special facilities and equipment of both the Departments of Family Social Sciences and Human



Nutritional Sciences. The University of Manitoba libraries system holds major volumes of English-language periodicals in textile sciences and ancillary areas. Internet access is available throughout the Human Ecology Building.

The University has numerous research institutes of potential relevance to the textile sciences graduate students. The Department of Textile Sciences maintains close relationships with the textile and related industries in Manitoba. Faculty are members of national or international organizations such as the Institute of Textile Science, the American Association of Textile Chemists and Colorists, the American Society for Testing and Materials, the American Chemical Society, the Administrative Sciences Association of Canada, The Academy of Marketing Science, the Canadian Textile Association, and The Association for Consumer Research.

M.Sc. Degree Requirements

Students will select a program appropriate to their educational career goals and the research activities of the faculty. The Master's program comprises a minimum of 18 credit hours of courses and a thesis. The coursework requirement is as follows:

- TXSC 7042 Preparation for Research in Textile Sciences
- TXSC 7070 Seminar in Textile Sciences
- TXSC ancillary at the 3000, 4000 or 7000 level* (maximum 9 credit hours)

- Ancillary: 3000 level or higher* (maximum 9 credit hours)

* One of the ancillary courses must be at the 7000 level

Contact:

Sheri Hubert
Graduate Program Assistant
Department of Textile Sciences
University of Manitoba
Canada R3T 2N2

E-mail: hubert@cc.umanitoba.ca
Tel: (204) 474-9606
Fax: (204) 474-7592

web:
http://umanitoba.ca/faculties/human_ecology/programs/ts/110.htm

DEPARTMENT
OF

TEXTILE
SCIENCES



Admission

A baccalaureate degree with high standing is required. Applicants with a 4-year degree in Textile Sciences or its equivalent may be admitted to the Master's program.

Those without a Textile Sciences major or its equivalent will normally be admitted to the Pre-Master's program. The Pre-Master's program involves a period of study, typically one year, to bring the standing of the student to the level of graduates with the B.Sc. degree at the University of Manitoba.

Six credit hours of Statistics (or equivalent) are required by all applicants regardless of the type of baccalaureate degree. Undergraduate statistics courses taken by students from other universities will be evaluated by the Faculty of Graduate Studies for equivalency with STAT 1000 or STAT 2000 during the admission process. If those courses are not deemed as equivalents, students will be required to take these two courses in their program even though the credits cannot be included in their program.

In addition to submitting the application form and academic transcripts, please submit a one to two page description of your research goal, career goals, and reasons for seeking admission into the Master's Program. The application must be accompanied by two letters of reference.

Applicants whose first language is not English, or whose previous education has been conducted in a language other than English, must attain a TOEFL iBT 80 or an IELTS 6.5, or equivalent. Test scores that are two years or older are not acceptable.

Financial Assistance

Limited Teaching Assistantships are available and require a commitment of up to 12 hours per week. Research Assistantships with individual faculty members may also be available.

University of Manitoba Fellowships are available on a competitive basis to students who have demonstrated academic excellence. Students are encouraged to apply for other awards such as the Canadian Home Economics Association scholarships and, where appropriate, Social Sciences and Humanities Research Council, Canada Council, and Natural Sciences and Engineering Research Council Fellowships. Information on other awards tenable at the University of Manitoba are available from the Financial Aid & Awards Office, 422 University Centre, University of Manitoba, Winnipeg, Manitoba, R3T 2N2. Phone (204) 474-9531.



Human Ecology Building opened in 1912 as the Horticulture and Biology Building. In 1950 it became the home of the Faculty of Human Ecology.

About the University of Manitoba

The University of Manitoba (est. 1877) is the largest, most comprehensive and only research-intensive post-secondary educational institution in Manitoba. The University attracts the brightest students and Faculty from around the world. Located in the heart of Canada, Winnipeg is one of the most culturally diverse cities in the country with nearly 100 languages represented.

Winnipeg's climate of four contrasting seasons provides a multitude of outdoor activities to be explored. The campus is fully networked, and hosts over 40 Research Centres and Institutes. The 13 branch Research Library Facility ensures all of the information you need for your studies is at your fingertips. Access to reasonably-priced on- and off-campus housing makes the U of M one of the most affordable universities to study at in Canada.

The University of Manitoba (U of M) attracts exceptional scholars to its 18 Faculties and 4 Schools and provides a world-class education in the Social, Medical, Natural and Applied Sciences, as well as Engineering, the Arts and Humanities. Programming in over 80 disciplines at the graduate level lead to 82 Master's degrees and 51 Ph.D.'s including: business management, engineering, agricultural and nutritional sciences, social sciences and humanities, education, physical and earth sciences, medical and life sciences and exciting

interdisciplinary opportunities. International students at the U of M have exclusive graduate funding opportunities available throughout their graduate program including entrance scholarships, bursaries and graduate fellowships.



An aerial view of the Fort Garry campus of the University of Manitoba, situated on a bow of the Red River.