

TEXTILE SCIENCES: Textile Development Stream – Engineering Sciences Option (prerequisites in parentheses)

Year 1		Credit Hours
_____	CHEM 1300 University 1 Chemistry: Structure and Modelling in Chemistry (Math 40S, Chemistry 40S)	3
_____	CHEM 1310 University 1 Chemistry: An Introduction to Physical Chemistry ('C' in CHEM 1300)	3
_____	STAT 1000 Basic Statistical Analysis 1	3
_____	STAT 2000 Basic Statistical Analysis 2 ('C' in STAT 1000)	3
_____	PSYC 1200 Introduction to Psychology <u>OR</u>	6
_____	or SOC 1200 Introduction to Sociology	
_____	TXSC 1600 Textiles for Living	3
_____	TXSC 1610 Textiles, Products, and Consumers	3
_____	ENG 1440 Introduction to Statics (60% in Math 40S, Physics 40S, and CHEM 40S) <u>OR</u>	3
_____	ENG 1430 Design in Engineering	
_____	Free Elective _____	3

Year 2		Credit Hours
_____	HMEC 2030W Human Ecology: Perspectives and Communication (or 28.203W)	3
_____	HNSC 1210 Nutrition for Health and Changing Lifestyles	3
_____	PERS 1200 Physical Activity, Health, and Wellness	3
_____	TXSC 2600 Textile for Apparel End Uses (TXSC 1020 or 'C' in TXSC 1600, TXSC 1610, 3 credit hours chemistry)	3
_____	TXSC 2610 Textiles for Non-Apparel End Uses (TXSC 1020 or 'C' in TXSC 1600, TXSC 1610, 3 credit hours chemistry)	3
_____	TXSC 2620 Consumer and Organizational Behaviour toward Textile Products (TXSC 2600, TXSC 2610)	3
_____	CHEM 2210 Introductory Organic Chemistry 1: Structure and Function ('C' in CHEM 1310)	3
_____	CHEM 2220 Introductory Organic Chemistry 2: Reactivity and Synthesis ('C' in CHEM 2210)	3
_____	Fulfillment of Engineering Sciences Option	Max 4
_____	Free Elective _____	
3		

Year 3		Credit Hours
_____	FMLY 1010 Human Development in the Family	3
_____	HMEC 2050 Introduction to Research (HMEC 2030 and STAT 1000)	3
_____	TXSC 3610 Product Standards and Specifications (TXSC 3620 and HMEC 2050)	3
_____	TXSC 3620 Evaluation of Textile Performance (TXSC 2600 and TXSC 2610)	3
_____	TXSC 3500 Textiles for the Healthcare Sector (TXSC 2610, HMEC 2050, and CHEM 2220)	3
_____	TXSC _____ Department Elective	3
_____	Fulfillment of Engineering Sciences Option	Max 8
_____	Free Elective _____	
3		

Year 4		Credit Hours
_____	HMEC 3100 Communication for Professional Practice (54 credit hours and HMEC 2030W)	3
_____	TXSC 4620 Colour Management (TXSC 3610 and HMEC 2050)	3
_____	TXSC 4630 Quality Assurance Systems (TXSC 3650 and TXSC 4620)	3
_____	TXSC 4500 Advanced Textiles for the Healthcare Sector (57 credit hours and TXSC 2600, TXSC 2610, TXSC 3260, 'C' in TXSC 3500, CHEM 2220 and HMEC2050)	3
_____	TXSC 4610 Integrative Project (84 credit hours)	6
_____	Fulfillment of Engineering Sciences Option	Max 12
_____	Free Elective _____	
3		

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Engineering Courses

For the Engineering Sciences option, you must choose 24 credit hours of Engineering courses from the following list:

At least 24 credit hours from:

- CIVL 2800 (4) Solid Mechanics
- MECH 2270 (4) Principles of Engineering Materials
- MECH 2290 (3) Manufacturing Engineering
- MECH 2300 (3) Introduction to Production and Manufacturing
- MECH 3540 (4) Modern Engineering Materials
- BIOE 2580 (4) Biosystems Engineering Design Trilogy 1
- BIOE 3590 (4) Mechanics of Materials in Biosystems

ENG 1440 (3) Introduction to Statics
ENG 1430 (3) Design in Engineering

Notes: New Textile courses will be introduced in the following sequence

NOTES:

¹TXSC 1600 will be offered beginning in 2005-2006 and will replace 064.102 for prerequisite and degree purposes.

²TXSC 1610 will be offered beginning in 2005-2006 and will replace 064.122 for prerequisite and degree purposes.

³TXSC 2600 will be offered beginning in 2005-2006 and will replace 064.122 for prerequisite and degree purposes.

⁴At least 12 credit hours must be taken in one area outside the faculty.

⁵Students in Textile Sciences who are graduating after May, 2005, will replace the requirement for 28.408 with 3 credit hours of free electives.

New Textiles courses will be introduced in the following sequence:

1. 2005 – 2006: TXSC 1600, TXSC 1610, TXSC 2600, TXSC 2610.
2. 2006 – 2007: TXSC 2620, TXSC 2630, TXSC 3600, TXSC 3610, TXSC 3630, TXSC 3640, TXSC 3500.
3. 2007 – 2008: TXSC 3650, TXSC 4600, TXSC 4610, TXSC 4620, TXSC 4630, TXSC 4500.

Former Clothing and Textiles program courses will be offered for the last time in the following sequence:

1. 2005 – 2006: 064.220, 064.221, 064.322, 064.340, 364.348, 064.349.
2. 2006 – 2007: TXSC 2240, TXSC 2250, TXSC 3420, TXSC 3470.
3. 2007 – 2008: TXSC 4260, TXSC 4310, TXSC 4340.

Note: 064.223 will not be offered again. Take TXSC 2600 from 2005-2006 onwards.

In the event of discrepancies with this document and the General Calendar, the General Calendar will prevail.

You must have the prerequisites for any course you take. We will not override prerequisites in order to allow you to progress more quickly.