NC STATE Wilson College of Textiles

Prospective Student Degree Planning Sheet

B.S. Textile Technology (TT)
Concentration: Medical Textiles – Effective Fall 2024

Use as a guide only. Students will enter the most current curriculum as of the semester in which they are first enrolled at NC State. Current curricula can be found on the NC State Catalog Page:
http://catalog.ncsu.edu/undergraduate/textiles/#departmentsandplanstext

Students can search course equivalencies through NC State's Transfer Course Credit Database:
https://webappprd.acs.ncsu.edu/php/transfer/ or the Transfer Planner

NC State Requirement	NCCC Equivalent	Equivalent Course at Current Institution	Credit Hours
Orientation			
T 101 – Strategies for Success in the Wilson College of Textiles	No equivalent	No equivalent	1
Math and Sciences			
MA 131 – Calculus for Life and Mgmt Sciences (or MA 141) *pre-requisite C- or better in MA 107 or MA 111 or 520 or better on the SAT Subject Test in Mathematics Level 2 or the NCSU Math Skills Test, or 2 or better on an AP Calculus exam	MAT 271		4
MA 231 – Calculus for Life and Mgmt Sciences B (or Calculus 2 – MA 241) *pre-requisite MA 131 or MA 141	MAT 272		3
ST 311 – Introduction to Statistics (or ST 370)	BUS 228 or MAT 152		3
CH 101/102 – Chemistry Molecular Science with lab *pre-requisite C- or better in CH 111 or Chem Placement Score	CHM 131/a or CHM 151		4
PY 211 – College Physics I (or PY 205/206) *pre-requisite MA 107 or above w/ C- or better or 480 on Math Skills test or 2 on AP Calculus score	PHY 151		4
PY 212 – College Physics II (or PY 208/209) *pre-requisite PY 211 or PY 205	PHY 152		4
Major Requirements			
EC 205 – Fundamentals of Economics (or EC 201)	ECO 251		3
FTM 217 – The Textile Industry *pre-requisite TT 105	No equivalent		3
TE 200 – Introduction to Polymer Science and Engineering *pre-requisite C- or better in CH 101	No equivalent		3
TE 201 – Fiber Science *pre-requisite CH 101 and C- or better in MA 131	No equivalent		4
MT 366 – Biotextile Product Development *pre-requisite TT 105, TE 200, TT 327; co-requisite TT 341, TT 351 and TT 404	No equivalent		3

PCC 302 – Technology of Textile Wet Processing *pre-requisite TT 105, TE 201, CH 101, PY 211	No equivalent		4
TT 105 – Introduction to Textile Technology	No equivalent		4
TT 327 – Yarn Production and Properties *pre-requisite MA 231, PY 211; co-requisite TE 201	No equivalent		4
TT 331 – Performance Evaluation of Textile Materials *pre-requisite ST 311, TT 327, PY 211, MA 231	No equivalent		4
TT 341 – Knitted Fabric Technology *pre-requisite TT 327	No equivalent		3
TT 351 – Woven Products and Processes *pre-requisite TT 327, PY 211	No equivalent		3
TT 380 – Management and Control of Textile and Apparel Systems *pre-requisite FTM 217	No equivalent		3
TT 401 – Textile Technology Senior Design 1 *pre-requisite TT 331, TT 341, TT 404; co-requisite TT 351	No equivalent		4
TT 402 – Textile Technology Senior Design 2 *pre-requisite TT 401	No equivalent		4
TT 404 – Introduction to Nonwoven Products and Processes *pre-requisite MA 131, PY 211	No equivalent		3
TT 431 – Quality Management and Control in Textile Manufacturing *pre-requisite ST 311	No equivalent		3
TT 481 – Design and Technology of Technical Textiles *pre-requisite TT 404, TT 341, TT 351	No equivalent		3
Medical Textiles Concentration Requirements			
BIO 183 – Introductory Biology: Cellular and Molecular Biology *pre-requisite BIO 181 or CH 101			4
MT 432 – Biotextiles Evaluation *pre-requisite TT 327, BIO 183			3
MT Advised Electives (11 hours)			11
GEP Courses (General Education) To see which courses satisfy each GEP category, review these GEP lists. http://catalog.ncsu.edu/undergraduate/gep-category-requirements/			
ENG 101 – Academic Writing and Research (or FLE 101 if 1st language is not English)	ENG 111 & ENG 112 or ENG 113		4
Humanities Electives *Students need to have two courses from two different subject areas	Multiple- use list above		6
Social Science Elective	Multiple- use list above		3
HES* 100 level *May be taken S/U	Multiple- use list above		1
HES* 100 or 200 level *May be taken S/U	Multiple- use list above		1
US Diversity, Equity and Inclusion Elective	Multiple- use list above		3
Interdisciplinary Perspective Electives	Multiple- use list above		5
Global Knowledge – one course from general education requirements or free electives must focus on Global Knowledge *co-requisite- can double count toward 3 hours of humanities, social science, or interdisciplinary perspective	Multiple- use list above		0

World Language Proficiency– typically satisfied through 2 levels of the same language in high school with at least a C			0
Minimum Total Credit Hours in Degree Required for Graduation			**120 hours**