Technical Design BS Degree Program

http://fitnyc.edu/techdesign

School of Business and Technology

Applications accepted for fall only. NYSED: 32621 CIP: 50.0407

The major in Technical Design prepares students for entry into the apparel industry, provides a solid foundation for complex technical design competencies, deepens students' problemsolving and critical thinking abilities, and facilitates the development of professional practices, interpersonal skills, and personal abilities that equip students for advancement in the evolving garment industry. An internship is required. Curriculum below is for the entering class of fall 2024.

Semester	Credits	
MAJOR	TC 311 - Production Pattern	2
AREA	Development I	
	TC 321 - Computerized Pattern	2
	Development	
RELATED	MG 314 - Manufacturing Process	2
AREA	Analysis	
	TS 301 - Advanced Textiles for	2.5
	Technical Design	
LIBERAL ARTS	EN 321 - Strategies of Business	3
	Communication	
	MA 311 - Mathematical Modeling for	3
	Business Applications	
	SS 131 - General Psychology	3
Semester	6	
MAJOR	TC 312 - Production Pattern	2
AREA	Development II	
	TC 322 - Computerized Grading,	3
	Marking, and Specs	
	TC 341 - Technical Design: Wovens	2
LIBERAL	HA 112 - History of European Art and	3
ARTS	Civilization: Renaissance to the Moder	'n
	Era	
	SC 147 - The Forensics of Fiber	3
	Analysis	
	or SC 332 - Color and Light and SC	
	032 Color Science Laboratory	
	SS 171 - Introductory Sociology	3
Semester		
MAJOR	TC 421 - Computerized Pattern and Fi	t 2
AREA	Corrections	
	TC 441 - Technical Design II: Stretch	2
RELATED	IC 497 - Senior Internship: Career	3
AREA	Planning	
	or TS 332 - Technical Design for	
	Sweater Knits	
ARTS	HA 344 - European Fashion: Ancient	3
	Origins to Modern Styles	
	SS 386 - Youth Subculture, Identity,	3
	and Fashion: A Sociological	
	Perspective	_
	choice - see Requirements*: Liberal	3
	Arts/Foreign Language	
Semester		
MAJOR	TC 451 - Production and Technical	2

AREA

Design

	TC 491 - Technical Design Senior Project	2.5
LIBERAL ARTS	SS 334 - The Psychology of Color	3
	SS 376 - Clothing and Society	3
	choice - see Requirements*: Liberal	3
	Arts/Foreign Language	
TOTAL CR	EDIT REQUIREMENTS	
	MAJOR AREA	19.5
	RELATED AREA	7.5
	LIBERAL ARTS	36
	Total Credits:	63

*Fall 2024 Requirements: See below.

Liberal Arts: 36 credits

The degree includes the Fashion History, Theory and Culture minor as part of its Liberal Arts requirements. Students must declare the minor in the Academic Advisement Center to be awarded the minor along with the major. If a course from the minor has been previously taken, students may select other Liberal Arts electives.

- History of Art: 6 credits. HA 112 and HA 344
- English: 3 credits. EN 121 and any additional EN course must be completed prior to enrolling in EN 321
- Foreign Language: 6 credits. Two semesters of the same foreign language, one of which must meet the General Education Foreign Language requirement (G8)
- Science: 3 credits. SC 147 or SC 332/SC 032
- Mathematics: 3 credits. Mathematics Proficiency must be completed prior to enrolling in MA 311
- Social Sciences: 15 credits. SS 131, SS 171, SS 334, SS 376 and SS 386

NOTE: An ideal candidate for the Tech Design BS degree program has earned an associate's degree in either Fashion or Menswear Design from an accredited college. Interested students without a background in Fashion or Menswear Design are required to take the following bridge courses before the start of the program.

Required knowledge areas prior to program entry:

- TS 111 Fundamentals of Textiles OR TS 110 Product Elements and Principles Laboratory
- FD 133 Materials and Construction I
- PM 121 Patternmaking I: Misses' and Women's Wear OR FD 243 Apparel Design Studio - Patternmaking
- TC 111 Beginning Adobe Illustrator for Technical Design

OVERALL BACHELOR'S DEGREE REQUIREMENTS

FIT's 2+2 degree structure requires an earned AAS or equivalent plus all the BS or BFA degree requirements.

This structure includes the following overall bachelor's degree graduation requirements:

- 120–126 total earned credits
- 30 credits in General Education credits approved by the State University of New York (SUNY)

BS degrees New York State guidelines:

- 60 credits in liberal arts
- 60–62 credits in major and related area, including a minimum of 24 credits in 300- to 400-level major and related area coursework

Upon graduation, students in the Technical Design BS program will achieve the following learning outcomes:

- Develop and sew production patterns and document how the garment is to be constructed in language that is clear to the manufacture
- Analyze the fit of a garment and document the problems in a clear and concise manner.
- Follow a garment through pattern development, construction and fitting and create a Technical Specifications Packet (Tech Pack).
- Measure a variety of garments: blouses, pants, skirts, jackets, dresses, intimate apparel and be familiar with different methods used to measure garments in the industry.
- Distinguish between the properties associated with different fabric types and how these properties impact pattern development, sewing, pressing, finishing and fit.
- Analyze a grading specifications sheet and grade basic patterns in a full size range without compromising the original design. Analyze

- corporate structure and describe the responsibilities of the designer, technical designer, merchandiser and contractor.
- 7. Become familiar with safety regulations associated with specific garment types and customer base and develop creative solutions for mass production in accordance with safety regulations.
- 8. Work as a team to: (a) create clear objectives, balance people skills and abilities, (b) develop effective processes for making decisions and communicating efficiently and (c) develop leadership skills to resolve conflicts while maintaining mutual cooperation and respect for each other.
- 9. Use current technologies and software programs utilized in the Technical Design field with proficiency.