Jefferson is known for crossing disciplines to reimagine the way students learn with an approach that is collaborative and active; global; integrated with industry; focused on research across disciplines to foster innovation and discovery; and technology-enhanced. As a national doctoral research university, Jefferson delivers high-impact professional education in 160 undergraduate and graduate programs to 7,800 students in architecture, business, design, engineering, fashion and textiles, health, social science and science.

The School of Design and Engineering emphasizes in-depth exploration of individual design and engineering disciplines, while encouraging interdisciplinary communication and collaboration. Classes stress conceptual thinking, design excellence, intellectual curiosity and creative expression, combining a focused concentration on one particular field with a broad-based educational foundation that fosters critical thinking skills in a global context. This multi-tiered approach provides graduates with the knowledge and skills to navigate professional challenges successfully and to reap the rewards of leadership and success in their careers.

**PROGRAM HIGHLIGHTS**

- Work on interdisciplinary projects with industry partners.
- Compete in research competitions sponsored by industry professional organizations at national and international levels.
- Focus on sports and high performance materials to design equipment and clothing materials that enhance human performance.
- Focus on product safety and materials evaluation to specialize in testing material performance in high-tech labs.
- Focus on commerce to combine business, marketing and management skills with textile knowledge, essential for the global textile marketplace.
- Focus on textile conservation and forensics to combine chemical and textile knowledge for work in research and museums.
- Focus on sustainability to analyze textile processes and predict the future of textile related businesses.
- Challenge yourself with graduate-level courses that ease the transition into master’s level textile engineering programs.

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# Curriculum

## Year 1
- Pathways Seminar
- Writing Seminar I: Written Communication
- Debating U.S. Issues
- Mathematics
- General Chemistry or Chemistry I and Lab
- Integrative Design Process
- Ethics
- Global Diversity
- Writing Seminar II: Multimedia Communication
- Science (Select one DECSYS)
- Framework: Business Models

## Year 2
- American Diversity
- Global Citizenship
- Debating Global Issues
- Integrative Seminar
- Weave Technology II or Knit Technology II  
  *(can be taken in year 2)*
- Ethics
- Global Diversity
- Writing Seminar II: Multimedia Communication
- Science (Select one DECSYS)
- Framework: Business Models
- Weave Technology I or Knit Technology I
- Weave Technology II or Knit Technology II  
  *(can be taken in year 3)*
- Organic/Textile Chemistry Concentration  
  *(6 credits)*

## Year 3
- Capstone Folio Workshop
- Capstone in Textile Product Science
- American Diversity
- Global Citizenship
- Debating Global Issues
- Integrative Seminar
- Weave Technology II or Knit Technology II  
  *(can be taken in year 2)*
- Nonwovens
- Color, Dyeing and Finishing Lecture
- Color, Dyeing and Finishing Lab
- Textile Materials
- Seminar: Textile/Apparel Industry Issues
- Concentration *(6 credits)*

## Year 4
- Concentration *(9 credits)*
- Free Elective *(9 credits)*

**Choose a concentration in:**
- Sports & High Performance Materials
- Commerce
- Textile Conservation & Forensics
- Product Safety & Materials Evaluation
- Sustainability

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