TECHNICAL APPAREL DESIGN (DETA)

This is a list of the Technical Apparel Design (DETA) courses available at KPU.

For information about transfer of credit amongst institutions in B.C. and to see how individual courses transfer, go to the BC Transfer Guide bctransferguide.ca

DETA 5110 **3 Credits**
Technical Apparel in Context
Students will examine the relationship between technical apparel and the intended context of use. They will learn to apply a human-centred systems approach to characterize human, functional, and environmental design requirements and objectives. Students will explore selected topics in ergonomics, anthropometry, psychology, thermal physiology, kinesiology, and safety as they relate to technical apparel design for recreational, occupational, athletic, survival, and therapeutic contexts.

Attributes: F2A6

DETA 5120 **3 Credits**
Technical Textile Technologies
Students will enhance their knowledge of advances in textile technologies that are revolutionizing the technical apparel industry. They will study the properties, processing, and testing of high tech textiles and new millennium fibres for a range of applications including: athletic and recreational performance, protection, occupational, survival, medical, smart fabrics, and eco-textiles for sustainability. Students will gain an understanding of the properties that influence function and performance. They will explore ways to apply research to further promote their understanding of technical textile applications.

Attributes: F2A6

DETA 5130 **3 Credits**
Creative Innovation
Students will explore, interpret, and conceptualize innovative processes for creative solutions in the designing of technical performance apparel. They will envision future technical apparel opportunities through evaluation of the current marketplace, interpretation of economic forecasts, sustainability issues, and target market user profiles. Students will systematize the effective application of design processes resulting in a variety of exploratory and defendable options.

Attributes: F2A6, F2B2

DETA 5140 **3 Credits**
Advances in Apparel Production
Students will research and analyze advanced production methodologies for technical apparel. They will examine technical apparel components to understand the implications of product integrity. Students will execute rapid prototyping techniques as an iterative process and evaluate production methodologies for fit, function, and environmental sustainability.

Attributes: F2A6

DETA 5200 **3 Credits**
Global Business Strategies for Technical Apparel
Students will reach beyond existing market demands to create new opportunities. They will critique business models, leadership practices, and global strategies while considering diverse organizational, social, and cultural relationships within the technical apparel industry. Students will assess geographical, ethical, and sustainability issues related to the use and function of technical apparel in global sourcing, trade negotiations, and logistical planning.

Prerequisites: DETA 5110, 5120, 5130 and 5140.
Attributes: F2A6

DETA 5210 **3 Credits**
User Experience
Students will apply and critique methods of engaging with and learning from technical apparel users throughout an iterative design process. They will formulate and implement testing strategies to evaluate user experience of technical apparel products.

Attributes: F2A6

DETA 5230 **3 Credits**
Strategic Design Direction
Students will research market opportunities and critique creative strategies, technological advances, and leadership approaches in the design of technical performance apparel. They will evaluate principles of research design methodology for the purposes of measuring potential innovation and creative solutions. Students will, through divergent thinking and exploration, debate strategic design directions and research to inform the final capstone project in DETA 5300.

Attributes: F2A6

DETA 5300 **9 Credits**
Capstone Project
Students will develop and conduct a complete design process for technical apparel based on approval of the capstone proposal developed in DETA 5230, Strategic Design Direction. They will apply the key elements of an iterative design process to generate a detailed, responsive design and an associated business strategy. Students will incorporate an understanding of the human-centred systems approach, current textile technologies, apparel production standards, user and market analyses, business strategies, project management, and innovation.

Prerequisites: DETA 5200, 5210 and 5230.
Attributes: F2A6