

AMM 1600 - Introduction to Textile Science

Introduction

This course introduces the study of physical and chemical properties of textiles. The course involves both lectures and co-laboratory segments for an in-depth and hands-on discussion of all stages of textile production, classification, identification, and properties. Fiber characteristics, coloration, and finishing processes in relation to fabric properties, performance, legislation, and care have allowed me to develop a comprehensive understanding of the fundamental aspects of textile production.

Artifact

In this class, we were asked to develop a report of 43 fabrics by fiber content, yarn construction, fabrication, coloration stage/type, and finishing with an intended end use for each. We were also required to conduct a series of fiber confirmation tests by microscopic and burning test methods. My teammates and I sectioned the assignment into three parts; I was responsible for sourcing and properly identifying fabrics by fiber content, yarn construction, fabrication and conducting the microscope fiber confirmation test.

Reflection

In developing this report, my understanding and ability to properly analyze fibers, yarns, and fabrics strengthened. I did this by first concentrating on enhancing the skills to identify fabrics and their construction types such as woven, knit, and their variations using a linen tester (pick glass). Once I was able to properly do this on a consistent basis, I then shifted my focus on identifying yarn types, twists and ply thoroughly. During the microscopic tests, I enjoyed observing the raw characteristics and beauty of each fiber, which I also found to be quite simple. Overall, I've learned many valuable lessons involving the fundamental studies of physical and chemical properties of textiles. I plan on further pursuing my knowledge of textile science even though my interest stands with product development; I also hope to integrate what I've learned into my career goals of creating my own business in fashion.