

Product Development, Sourcing + Manufacturing: Domestic and Overseas

Course Description

Product managers look to the future. They turn ideas and design concepts into reality, converting creativity into a valid commercial proposal. Product management brings together the work of the design studio, pattern cutting and production departments, ensuring a dynamic fashion collection achieves the required styling, production methods, price points, delivery dates and points of sale. This course trains participants in advanced production processes and product management skills, analysing the marketing strategies and production methods necessary to create a successful fashion collection. Participants learn how to respond to trends and consumer demands, and create a collection of apparel products that are innovative in style, production methods and processes.

Career Occupation* (if applicable)

Product Developer, Production Manager, Technical Designer, Quality Control Analyst or Inspector, Sourcing Project Manager, International Operations Manager

Admission Requirements*

- High School Diploma or equivalent, or mature student status (19+ on the first day of study)
- Admissions interview: In person or via Zoom/ Skype with the Director of Operations & Admissions or with the Senior Education Administrator.
- Application Essay: The application essay must clearly describe why you have chosen the Cut Fashion Design Academy. Why you chose this particular program. Why are you passionate about the fashion industry, and what are your future career goals in a minimum of 250 words.
- All applicants must be able to read, write, and communicate in the English language :**Canadian Language Benchmark Placement Test (CLBPT) with a minimum level 6, and the Duolingo Language Test are accepted in some circumstances at a minimum score of 85-90.**

Learning Objectives*

Upon completion of this program the successful student will have reliably demonstrated the ability to:

- *Analyze and develop product development and apparel manufacturing process*
- *Demonstrate an ability to create marketable and producible fashion designs.*
- *Complete textiles, materials and labour sourcing both near and off-shore.*
- *Develop an industry-relevant product line executed with business profits in mind*
- *Develop and improve existing small business*

PROGRAM OUTLINE

Product Development, Sourcing + Manufacturing: Domestic and Overseas

- *Manage vendor ecosystems and use a common language for effective communication among different parties of the fashion supply chain*
- *Students will product develop and produce 2 items with a local factory/ pattern studio.*
- *Students will product develop and produce 2 items with an overseas factory*
- *Learn to solve problems from the buyer/product developer perspective and conduct*
- *research on markets and fashion trends*
- *Develop trend concept boards for visual presentation*
- *Identify advanced garment construction, embellishment and production techniques*
- *Create Detailed Spec Sheet, Bill of Materials sheets Production Calendars and Cost sheets*
- *Develop a working vocabulary of terms used in the textile industry and how they affect textile performance*

Method(s) of Evaluation*

The course is broken up into small projects that ultimately come together to make a cohesive understanding of Product Development + manufacturing: Domestic and Overseas. Presentation format and style is determined by each student. Students will receive written evaluations on a regular basis and at least once before 30% of the hours of instruction of the program have been provided.

Completion Requirements*

The Cut Academy will use the following grade scale to determine each student's grade through their work. Students must receive an average of 75% from all the assignments in order to pass the course.

Letter Grade	Scale (%)	Notes
A+	90.00 - 100.00	
A	85.00 - 89.99	
A-	80.00 - 84.99	
B+	76.00 - 79.99	
B	72.00 - 75.99	
B-	68.00 - 71.99	
C+	64.00 - 67.99	
C	60.00 - 63.99	
C-	55.00 - 59.99	
D	50.00 - 54.99	
I	0.00 - 49.99	Temporary
F	0.00 - 49.99	Permanent

Assignments will be graded on selected criteria per assignment. Students must receive 55% or above to pass the following assignments:

*Spec Sheet Assignment
 Bill of Materials Project
 Production Plan / Calendar*

Product Development, Sourcing + Manufacturing: Domestic and Overseas

- Sourcing Projects*
- Weave Assignments*
- Cost Sheet Exercises*
- Quizzes*
- Manufactured Samples*

Program Organization*

Title of Course/Work Experience Component *	# of Hours*
Product Development, Production and Sourcing	280 Hours

Term: 14 weeks x 20 hrs/week = 280 hours

Weekly: Lecture 8 hours/week. Lab 12 hours/week

MODULES

INDUSTRY INTRODUCTION

- *Introduction to the various roles in the fashion industry.*
- *Understand how all roles work together in bringing products to market.*

BUILDING A TECHNICAL SPECIFICATION PACKAGE

- *Introduction to building a spec sheet.*
- *Use of software to produce industry-standard technical documents.*
- *Understand how to prepare technical specification packages.*

CONSTRUCTION

- *Overview / review of different seam constructions.*
- *Identify construction details in a spec sheet.*
- *Overview of trim items often found in apparel products.*
- *BOM (Bill of Materials) are defined.*
- *Build a BOM, estimating yields, minimum orders, etc.*
- *Understand and prepare a production plan / calendar.*

- *Identify fabric and trim lead times with suppliers.*
- *Understand lab dips; color matching, and DTM (Dye to Match) trims.*

TEXTILE SCIENCE

- *Textile fibers, yarn classification and numbering, texturing, spun yarn manufacturing and yarn testing.*
- *Knitting and weaving fundamentals, and nonwovens.*
- *Fabric preparation and fabric finishing.*
- *Color – dyestuffs, pigments, digital and traditional printing methods.*
- *Get to know where to source fabric.*

PROTOTYPE BUILDING

- *Learn how to problem solve manufacturing.*
- *Be able to identify effective methods for tracking changes.*
- *Producing a run – either sample or production, and what are the differences.*
- *QC – working with production to identify and uphold quality standards.*

PROGRAM OUTLINE

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- Confirm and release approved tech packs.
- Using tech packs, produce three samples at domestic factory

SOURCING

- Understand the role of sourcing and determine best methods of use.
- Learn about the pros and cons of factory allocation.
- Learn how to confirm material sourcing.
- Understand flowchart that runs between PD, Sourcing Managers and Design
- Using learned techniques, locate one overseas apparel manufacturer to produce a total of three samples, using tech packs created.

PRODUCTION & PLANNING

- Understand basic factory flow.
- Understand and prepare costing, estimating yields.
- Produce a production plan using strict timelines.
- Understand the role of finance.

PRESENTATION

- Final project: Total of 4 manufactured garments; two garments domestically and 2 garments internationally.
- Students will present their final presentation to peers, and the course instructor.

BOOKS:

Beyond Design - The Synergy of Apparel Product Development - Sandra j. Keiser, Myrna B. Garner
2nd Edition

J.J. Pizzuto's Fabric Science Swatch Kit - Ingrid Johnson, Ajoy K. Sarkar and Allen C. Cohen
11th Edition

Materials Required:

Adobe Illustrator Subscription (Available Online)
Yesland Multi-Craft Weaving Loom (Available Online)

* Material costs for the 4 projects are dependent on what students choose to develop. Costs can range from \$450 to \$2000 depending on design. Under instructor guidance, students will work on their own development process and purchase directly from manufacturers.

Guest Speakers:

There will be at least 1 guest speaker per semester

Student Name: _____

Student Signature: _____

Date: _____