PM: Patternmaking

PM 111 — Industrial Methods of Draping
2 credits; 2 lecture and 2 lab hours
Students learn the basic draping methods of developing production patterns for the garment industry.

PM 121 — Patternmaking I: Misses' and Women's Wear
2 credits; 0 lecture and 4 lab hours
In this course, students learn to develop basic body slopers using standard specification measurements. Collars and basic sleeve shapes are made. Paper patterns, as well as a final fabric sample, are developed. Students learn the importance of fit and balance in order to create a high-quality production pattern. Specifications are discussed in relation to both pattern development and finished garment measurements.

PM 122 — Patternmaking II: Misses' and Women's Wear
2 credits; 4 lab hours
Utilizing the basic slopers, students develop additional patterns for style variations using the slopers developed in PM 121. Patterns are developed for bodice, torso, and sleeves. A variety of skirt slopers are developed. Pattern corrections are made according to fit, balance, and specification measurements. Final patterns and fabric samples acceptable for mass production are created.
Prerequisite(s): PM 121.

PM 171 — Pattern Grading: Misses' and Women's Wear
2 credits; 4 lab hours
Introduction to manual pattern grading and marker-layout techniques. The students learn how to apply grade measurements proportionally to all the pieces within a pattern. The importance of accurate measurement specifications and their effect on the finished product are emphasized. Marker-layouts for samples, costing and mass production are developed.
Prerequisite(s): (for Patternmaking Certificate students) PM 121, or (for Fashion Design students) FD 111 or FD 121.

PM 221 — Computerized Production Patternmaking
2 credits; 4 lab hours
Students learn to use the computer as a tool for production patternmaking and other apparel industry applications. Includes knowledge of hardware, software, and system programming on the Gerber Accumark system to produce a sample production pattern.
Prerequisite(s): PM 121, or FD 121, or MW 131, or approval of program coordinator.

PM 231 — Patternmaking: Misses' and Women's Wear
2 credits; 4 lab hours
Advanced study of misses' and women's daytime dresses. Different dresses are drafted.
Prerequisite(s): PM 122.

PM 233 — Patternmaking: Misses' Sportswear
2 credits; 4 lab hours
Students learn the necessary details involved in developing linings, facings, fusibles, stays, and stampers for both tops and bottoms. Pant and jacket slopers are created, with a strong emphasis on fit. Multiple construction techniques are discussed. A final fabric sample is developed with all the specification measurements and construction details necessary for manufacturing.
Prerequisite(s): PM 122.

PM 234 — Patternmaking: Misses' Sportswear
2 credits; 4 lab hours
Further study of patternmaking for casual sportswear.
Prerequisite(s): PM 233.

PM 236 — Patternmaking: Coats and Suits I

2 credits; 4 lab hours
Students learn patternmaking for all types of coats and suits.
Prerequisite(s): PM 122.

PM 237 — Patternmaking: Coats and Suits II

2 credits; 2 lecture and 2 lab hours
Continuation of PM 236, with special emphasis on a variety of coats.
Prerequisite(s): PM 122.

PM 238 — Production Pattern Development for Women's Plus-Sizes

2 credits; 2 lecture and 2 lab hours
Students are introduced to the full size figure by analyzing the actual body, garment and production specification measurements. By using the most current data developed in industry for the large size body, students gain a better understanding of the important areas of the body that present a challenge when developing styles. Prerequisites: PM 121 and PM 122.

PM 241 — Patternmaking: Children's Wear I

2 credits; 2 lecture and 2 lab hours
Students learn the fundamentals of basic flat patternmaking and industrial practices for children's wear. Basic slopers and a variety of garments are developed for the toddler (2 to 4T), child (4 to 6X), and girls (7 to 14) size ranges.

PM 242 — Patternmaking: Children's Wear II

2 credits; 2 lecture and 2 lab hours
This course is a continuation of the skills learned in PM 241.
Prerequisite(s): PM 241.

PM 251 — Advanced Adobe Illustrator for Technical Design

2 credits; 0 lecture and 4 lab hours
Introduction to the fundamental concepts and methods of technical design in production development--from concept through production--for apparel and related products. The elements of technical design, technical sketching and documentation, garment specification, fitting, technical communication, and the use of CAD systems in the manufacturing and retail environments are taught, providing a basic knowledge of technical design skills and responsibilities in the industry. Basic computer skills are required.
Prerequisite(s): TC 111.

PM 255 — Fit Analysis and Technical Documentation

2 credits; 4 lab hours
This course introduces the students to fitting tops, dresses, skirts, pants, and basic jackets on live, professional industry models. Proportions and balance are analyzed, and adjustments and corrections are made on the production pattern.
Prerequisite(s): PM 233.

PM 264 — Patternmaking: Production and Cost

2.5 credits; 2 lecture and 1 lab hours
This course is a study of mass production methods used in the manufacture of garments. Analysis of principles of garment costing and common problems encountered in quality control are examined.
Prerequisite(s): PM 121.

PM 271 — Pattern Grading: Misses' and Women's Wear

2 credits; 2 lecture and 2 lab hours
Further study of body and pattern measurements for the purpose of grading larger and smaller sizes.
Prerequisite(s): PM 122 and PM 171.

PM 273 — Computerized Pattern Grading and Marker Making

2 credits; 2 lecture and 2 lab hours

Emphasizing apparel industry applications, students learn to use the computer to grade patterns and prepare markers. The system's hardware and capabilities, as well as programming for the Gerber Accumark system, are covered. Basic computer skills required.

Prerequisite(s): PM 122 and PM 171 or approval of chairperson.

PM 275 — Computerized Pattern Grading and Marker Making for Lectra

2 credits; 1 lecture and 3 lab hours

Through hands-on experience, students learn to use the Diamino, Lectra Modaris, and Vigiprint software programs to grade production patterns and prepare markers. By using the CAD system, they learn to digitize, plot, modify patterns, manipulate markers, and manage file information. The system's hardware and software capabilities are addressed, emphasizing apparel industry applications. Basic computer skills are required.

Prerequisite(s): PM 122 and PM 171, or approval of chairperson.

PM 283 — Patternmaking for Knit Garments

2 credits; 2 lecture and 2 lab hours

This course explores various styling techniques for misses' and women's cut-and-sew knit sweaters, pants, dresses, and costumes. Students also learn appropriate methods for steaming, fitting, and finishing garments.

Prerequisite(s): PM 122.