DATE SUBMITTED: 12/15/09
CATALOG NO.: APTX 251
DATE DICC APPROVED: 12/15/09
DATE LAST REVIEWED: 1/30/2007

COURSE INFORMATION FORM

**DISCIPLINE**: Apparel and Textile  
**COURSE TITLE**: Apparel Design Production

<table>
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<tr>
<th>CR.HR</th>
<th>LECT HR.</th>
<th>LAB HR.</th>
<th>CLIN/INTERN HR.</th>
<th>CLOCK HR.</th>
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**CATALOG DESCRIPTION**
Introduction to apparel production manufacturing methods and equipment used in the industry, including those used in layout, cutting and sewing. Students learn procedures of design from concept to hanger.

**PREREQUISITES**
APTX 215 Pattern Design - Draping

**EXPECTED STUDENT OUTCOMES IN THE COURSE (ESO)**
Upon completion of this course, the student will be able to:

1. Describe industrial sewing machinery and equipment involved in actual apparel production.
2. Define design room techniques at the production level.
3. Describe purchases needed for production, foreign and domestic.
4. Define measurements, manufacturer’s sizing standards and standard human body dimensions for male and female.
5. Calculate yardages needed at the production level. Solve case studies concerning apparel manufacturing issues.

**GENERAL EDUCATION OUTCOMES (ESO)**
Specify which general education outcomes, if any, are substantially addressed by the course. Numbers in parentheses identify the Expected Student Outcomes linked to the specific General Education Outcome.

<table>
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<tr>
<th>Outcomes</th>
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<td>3. Life-Long Learning:</td>
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<td>C. Attributes of an Awareness of the Convergence of Knowledge</td>
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<td>2. Apply learned skills to real world interactions</td>
<td>(1,2,3,4,5,6)</td>
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<td>3. Synthesize information to facilitate applications</td>
<td>(1,2,3,4,5,6)</td>
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PROGRAM-LEVEL OUTCOMES

CAREER AND TECHNICAL EDUCATION PROGRAM OUTCOMES
Specify which Career and Technical program outcomes, if any, are substantially addressed by the course by completing the “Career and Technical Education template” to show the relationship between course and program outcomes to assessment measures.

Demonstrate ability to communicate effectively in oral, written and visual forms
- Produce effective visual materials to communicate product development or marketing strategies
- Recognize and use appropriate professional terminology

Demonstrate professional expertise in marketing and product merchandising.
- Identify target markets, accessing of consumer audience.
- Perform necessary marketing research for targeted product development
- Develop effective business planning appropriate to identified strategies.

Demonstrate professional creative and technical expertise in product development
- Identify target markets, accessing of consumer audience.
- Perform necessary creative research for targeted product development
- Develop designs and edit selections appropriately to serve target market
- Identify clothing development from various historical periods and demonstrate proficiency in utilizing historical influence

CLASS-LEVEL ASSESSMENT MEASURES
Student accomplishment of expected student outcomes will be assessed using the following measures. (Identify which measures are used to assess which outcomes.)

1. Exams 1,2,3,4,5,6
2. Reports 1,2,3
3. Projects 2,3,4,5,6
Individual instructors may order this outline as fits the needs of their individual courses. In addition, they may place more emphasis on some areas than on others. What is assured is that this particular list is covered in the course. Other topics may be added to a course as the instructor sees fit, and as time and interest allow. An *asterisk can be used to mark an item as optional.

I. Apparel design team
   A. Trends of style and fabrics
   B. Fashion sketch and the flat sketch
   C. Sample cutting and marker making
   D. Cost of sample line production
   E. First patterns

II. Apparel production team
   A. Line adoption
   B. Production pattern
   C. Sewing time costs
   D. Production garment
   E. Production fabric
   F. Production markers
   G. General garment assembly
   H. Computer applications used in industry

III. Quality assurance
   A. Standards for garment quality
   B. Standards of fabric quality
      1. Shrinkage
      2. Color fastness
      3. Abrasion
   C. Seconds

IV. Government regulations on labeling
   A. Apparel labeling
      1. Fiber content
      2. Care instructions
   B. Trademarks and brands
   C. Regulations on apparel safety
      1. Flammable Fabric Act
      2. Children’s outerwear

V. Industrial manufacturing equipment
   A. Sewing machines
      1. 301 lock stitch
      2. 401 chain stitch
      3. 501 sergers and overlocks
      4. Full felt sewing machine
      5. Reece buttonhole machines

Revised 1/26/10
6. Bar tacker

B. Layout and cutting equipment
   1. Fabric rollers
   2. Rotary cutters
   3. Straight cutters
   4. Computerized cutting
   5. Computerized plotters

VI. Productions purchases
A. Forms
   1. Fabric yardages
   2. Trim items
      a. Shoulder pads
      b. Zippers
      c. Elastic

B. Cost sheets
   1. Garment cost (CMT)
   2. Total cost of goods

VII. Measurements
A. ASTM body standard measurements
B. Manufacturer’s measurements and sizing
C. Commercial pattern industry standard measurements

VIII. Garment production specifications
A. Factory sewing specification sheet
   1. How to lay the marker
   2. Style used

B. Sewing order

C. Special specifications to be illustrated