COURSE INFORMATION FORM

DISCIPLINE
Apparel and Textile

COURSE TITLE
Pattern Design - CAD

CR.HR 3 LECT HR 1 LAB HR 4 CLIN/INTERN HR CLOCK HR

CATALOG DESCRIPTION
Previous sewing and apparel construction experience necessary. Basic principles and methods of pattern design through computer aided design methods. Development of basic slopers in full scale sizes. Exploration of pattern design techniques and process through use of industry level computer software applications.

PREREQUISITES

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

1. Demonstrate pattern design using industry level computer software applications.
2. Demonstrate use of specific CAD and pattern design terminology.
3. Demonstrate appropriate technique to design specifications.
4. Demonstrate mastery of process through design, pattern development and construction of an original design.
5. Explain and demonstrate product development applications of CAD to the line development process.

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>
<thead>
<tr>
<th>Outcomes</th>
<th>ESO</th>
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<tbody>
<tr>
<td>3. Life-Long Learning</td>
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<tr>
<td>C. Attributes of an Awareness of the Convergence of Knowledge</td>
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<tr>
<td>1. Apply learned skills to real world interactions</td>
<td>1,2,3,4,5</td>
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<td>2. Synthesize information to facilitate applications</td>
<td>1,2,3,4,5</td>
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<td>6. Humanities</td>
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<td>E. Articulate a response to participation in, or observance of, works in the arts and humanities, based upon aesthetic standards</td>
<td>4</td>
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Revised 12/15/10
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
  • Recognize and use appropriate professional terminology

Recognition of current ethical and professional issues in textiles and apparel industries.
  • Demonstrate knowledge of ethical issues related to labor, global trade, and free/fair trade.
  • Demonstrate knowledge of environmental issues related to dyeing, weaving and manufacturing of apparel product.
  • Demonstrate knowledge of historic issues in clothing, dress related to labor and production.

Demonstrate professional creative and technical expertise in product development
  • Develop designs and edit selections appropriately to serve target market
  • Develop technically appropriate patterns
  • Demonstrate and utilize professional garment construction techniques

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. Participation in class demonstration and discussion activities 1,2,3,4,5
2. Focused assignments over text book and demonstrations 1,2,3,4,5
3. Capstone project demonstrating mastery and ability to integrate key concepts related to draping process 1,2,3,4,5
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. Basic Computer Drafting Techniques
   A. Basic slopers
   B. Pivoting on the computer
   C. Slash/Spread on the computer
II. Grading techniques
III. Making markers
IV. Costing apparel for production
V. Design and presentation using CAD