Eastern Illinois University
Revised Course Proposal
FCS 4838, Pattern Development & Design

1. Catalog description
   a. Course number: FCS 4838 (old number FCS 4238)
   b. Title: Pattern Development & Design (Principles of Pattern Design)
   c. Meeting times and credit: 2-2-3
   d. Term(s) to be offered: S
   e. Short title: Pattern Design
   f. Course description: Application of flat patterning theories and techniques to create original apparel and accessory products using industry state-of-the-art patterning software
   g. Prerequisite(s): FCS 2234 Principles of Clothing Construction or graduate student status or permission of instructor after evaluation of clothing construction samples.
   h. Initial term of course offering: Spring 2007

2. Student Learning Objectives and Evaluation
   a. Course Objectives: (Assessment methods indicated in parenthesis are examples)
      Upon completion of the course, students will be able to:
      • define the product development and design processes for apparel and other related soft goods products (exams and design projects)
      • document pattern development and technology design career positions (design projects and reference portfolio)
      • produce digital concept boards to represent one five item design line (design concept board)
      • design one complete original pattern and product line on industry software (design projects)
      • create one pattern marker ready for spreading and cutting (design projects)
      • develop technology design skills for pattern creation and manipulation (design projects)
      • execute a variety of design features from concept to completed design (final garment).
   
   b. Student achievement will be assessed and grades will be earned based upon the following:

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<thead>
<tr>
<th></th>
<th>Undergraduate</th>
<th>Graduate</th>
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<tbody>
<tr>
<td>Exams</td>
<td>15 %</td>
<td>15 %</td>
</tr>
<tr>
<td>Design projects</td>
<td>20 %</td>
<td>15 %</td>
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<tr>
<td>Reference portfolio</td>
<td>15 %</td>
<td>20 %</td>
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<tr>
<td>Design concept board</td>
<td>20 %</td>
<td>15 %</td>
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<tr>
<td>Final garment and self evaluation</td>
<td>30 %</td>
<td>35 %</td>
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   c. This course will be delivered traditionally with extensive computer support.

   d. Course number is 4838 and the additional requirement for graduate students will include
(1) Course objective for graduate students: After completion of this course graduate students will be able to:

- identify and differentiate between manufacturing and couture patterning and construction techniques. (samples placed in Reference Portfolio)

The graduate student’s original design will be submitted for evaluation by three faculty members and/or an industry representative and submitted to an international student competition if selected.

e. This is a writing active course. All exams include essay questions. Research review summaries are written assignments.

3. Outline of the Course

I. Course Introduction 1 week
   A. Design Processes
      1. Flat fabric to irregular bodies concepts
      2. Draping basics
      3. Dress forms and measurements
   B. History of Processes
      1. Careers as designers
      2. Designers as technicians
   C. Tools before and after CAD

II. Designing a full apparel line 3-5 garments/accessories 4 weeks
   A. Concept board
      1. Age group
      2. Geographic area
      3. Color palette
   B. Fashion fabric selection
   C. Sourcing

III. Patterning 4 weeks
   A. Slopers and sub-slopers using manual methods
      1. Patterning with dividing slopers
      2. Fullness and ease manipulation
   B. Slopers and sub-slopers using industry software
   C. Experiment with construction techniques
   D. Complete pattern from industry software
   E. Create marker and print

IV. Construction 5 weeks
   A. Construct one complex garment in muslin or two less intricate garments to make an ensemble
   B. Evaluate results with instructor
   C. Revise pattern
   D. Construct garment from fashion fabric

V. Presentation and Evaluation 1 week
4. **Rationale**
   a. Purpose and need:
   The course revision is necessary to have a competitive and current course in textile and apparel design. Similar courses are part of the curriculum in programs offering Technical Apparel Design, CAD for Apparel Design and other courses to prepare for design technology careers. The University of Minnesota, the Fashion Institute of Technology, and the University of Wisconsin are implementing the Lectra (Modaris) design systems software or are in the process of revising their manual patterning courses to reflect actual content as it is taught with digital software and digital printers. Eastern Illinois University is one of 50 American universities and the only one in Illinois currently using the Modaris software to teach undergraduate and graduate students.

   b. Justification of the level of the course and of course prerequisites.
   The course level is changed from 4238 to 4838 to provide an opportunity for graduate students from undergraduate merchandising/textiles/apparel programs in the region and to meet the public school teachers update requirements. The software and design projects are complex and meet the industry’s need for textile and apparel technology designers.

   c. Similarity to existing courses:
   There is no similarity to an existing course at Eastern Illinois University.

   d. Impact on Program(s):
   Course will be offered as an elective for both undergraduate and graduates students. Currently there is a limited course offering for students desiring to continue their education at the graduate level in textile and clothing related areas. Entry level positions are available in the 50-65 thousand dollar range for technical textile, apparel and soft goods designers.

5. **Implementation**
   a. Faculty member(s) to whom the course may be assigned: Jean K. Dilworth, Professor and Graduate Faculty in School of Family and Consumer Sciences

   b. Specification of any additional costs to students, including those for supplemental packets, hardware/software, or any other additional technical or technological requirements.
   Students will be required to purchase their personal sewing supplies, muslin and fashion fabrics for their garments which become their personal property.

   c. Text and supplementary materials to be used, including publication dates:


   References:

6. **Community College Transfer**
   A community college course will not be accepted as a substitute for this course.
7. Date approved by the SFCS Curriculum Committee: April 25, 2005

8. Date approved by the LCBAS Curriculum Committee: October 10, 2005

9. Date Approved by CAA: November 10, 2005

10. Date approved by CGS: February 7, 2006