El Paso Community College
Syllabus
Part II
Official Course Description

SUBJECT AREA **Fashion Technology**

COURSE RUBRIC AND NUMBER **FSHD 1328**

COURSE TITLE **Flat Pattern Design I**

COURSE CREDIT HOURS **3 2 : 3**
Credits Lec Lab

I. Catalog Description

Introduces the creative design of clothing through the flat pattern method. Provides general principles of pattern-making using the basic five piece dress sloper. Studies dart manipulation, slashing and spreading the pattern and contouring sew lines. **(2:3). Lab fee.**

II. Course Objectives

A. Unit I. Industry Standards
1. Calculate and record garment or pattern specifications using industry standards.
2. Evaluate the need for pattern perfection and tolerance standards.
3. Assess pattern accuracy.
4. Develop patterns with accurate lines and curves using industry standards.
5. Develop patterns with appropriate annotations using industry standards.

B. Unit II. Analysis of Design Feasibility
1. Analyze design feasibility in terms of product cost.
2. Analyze design feasibility in terms of materials handling.
3. Analyze patterns for efficiency of production.
4. Predict production problems.

C. Unit III. Industry Terminology and Industrial Communication
1. Use terminology common to the industry segment.
2. Facilitate design room communication.
3. Minimize errors due to misunderstanding of terms.
4. Report errors immediately.
5. Discuss the use of differing terminology within the industry.
6. Identify pattern making tools, including rulers and proportional dividers.

D. Unit IV. Figure Analysis
1. Analyze standard body types and body type variations.
2. Analyze variations of standard body types.
3. Identify size ranges by industry standards and competitive fit.
4. Evaluate clothing styles appropriate for various body types.

E. Unit V. Applied Mathematics
1. Apply mathematical skills pertinent to the pattern making industry.
2. Add, subtract, multiply, and divide fractions.
3. Determine textile and trim quantities and amounts needed for production runs.
4. Use mathematics to determine yield and allocation.

F. Unit VI. Measuring Techniques
1. Measure the human body accurately.
2. Measure industrial dress forms accurately.
3. Discuss variations of measurement between body/dress form, pattern, sample garment and production garment.
4. Record measurements accurately.
5. Establish body dimensions in terms of size and shape.
6. Measure and record specifications from finished garments.
7. Specify seam allowances needed for various industrial sewing machines.

G. Unit VII. Flat Patternmaking
1. Develop new patterns using flat patternmaking.
2. Use working patterns without altering the master working pattern.
3. Determine which working pattern will most effectively aid in the development of the new pattern.
4. Analyze the creative detailing of new designs by studying the differences between the basic garment and the new design.
5. Use pattern making tools, including rulers and proportional dividers.
6. Calculate and develop seam allowances needed for various industrial sewing machines and finishing techniques.
7. Determine appropriate notch placement for industrial sewing.
8. Establish exact grain lines.
9. Measure patterns to insure accuracy and pattern perfection
10. Fold working patterns into three-dimensional shapes to visualize product appearance.

H. Unit VIII. Slash-Spread Technique of Dart Manipulation
1. Develop new patterns using the slash-spread technique.
2. Determine appropriate locations for new darts.
3. Fold and cut darts accurately.
4. Evaluate fit of new designs.
5. Create a high quality finished pattern.

I. Unit IX. Pivotal-Transfer Technique of Dart Manipulation
1. Develop new patterns using the pivotal-transfer technique.
2. Manipulate an original working pattern into a new shape.
3. Pivot, shift, and trace new patterns.
4. Create a high-quality finished pattern.

J. Unit X. Redesigning of Darts
1. Redesign darts into tuck-darts using both the slash-spread and pivotal-transfer techniques.
2. Redesign darts into pleats using both the slash-spread and pivotal-transfer techniques.
3. Redesign darts into flares using both the slash-spread and pivotal-transfer techniques.
4. Redesign darts into gathers using both the slash-spread and pivotal-transfer techniques.
5. Label and mark patterns correctly to indicate sewing instructions.

K. Unit XI. Drafting the Basic Pattern Set
1. Discuss redundancies both those needed for accuracy and those wasteful and inefficient.
2. Draft skirt, pant, bodice, sleeve, collar, and pocket patterns from measurement and body ease specifications.
3. Create a precise grain line.
4. Create appropriate pattern markings and clear-cut annotations.
5. True (walk) pattern.
6 Draw an accurate finished pattern.
7. Develop appropriate seam allowances.
8. Determine the correct placement of notches.
9. Cut precise patterns.

L. Unit XII. Preparing the Pattern for the Test Fit
1. Correct patterns using blending techniques.
2. True a pattern to establish pattern perfection.
3. Measure finished pattern.
4. Verify specifications.
5. Prepare the muslin for the test fit.
6. Calculate yardage requirements including yield and allocation.
7. Design a pattern layout.
8. Evaluate the balance of the finished muslin.
9. Evaluate the fit of the finished muslin.
10. Prepare fit corrected patterns for additional test fittings.

III. THECB Learning Outcomes (WECM)

1. Demonstrate basic pattern-making skills of dart manipulation, slashing and spreading the pattern and contouring.
2. Document terms, markings, and symbols used in production patterns; and produce basic production patterns.

IV. Evaluation

A. Grade percentages for determining course grades may be devised by the individual instructor.

B. Grading Scale:

A = 93 - 100	I = INCOMPLETE
B = 83 - 92	W = WITHDRAWN
C = 73 - 82	F = BELOW 68
D = 68 - 72	

V. Disability Statement (Americans with Disabilities Act [ADA])

EPCC offers a variety of services to persons with documented sensory, mental, physical, or temporary disabling conditions to promote success in classes. If you have a disability and believe you may need services, you are encouraged to contact the Center for Students with Disabilities to discuss your needs with a counselor. All discussions and documentation are kept confidential. Offices located: VV Rm C-112 (831-2426); TM Rm 1400 (831-5808); RG Rm B-201 (831-4198); NWC Rm M-54 (831-8815); and MDP Rm A-125 (831-7024).

VI. 6 Drop Rule

Students who began attending Texas public institutions of higher education for the first time during the Fall 2007 semester or later are subject to a 6-Drop limit for all undergraduate classes. Developmental, ESL, Dual Credit and Early College High School classes are exempt from this rule. All students should consult with their instructor before dropping a class. Academic assistance is available. Students are encouraged to see Counseling Services if dropping because exemptions may apply. Refer to the EPCC catalog and website for additional information.