SAN DIEGO COMMUNITY COLLEGE DISTRICT
COLLEGE OF CONTINUING EDUCATION
COURSE OUTLINE

SECTION I

SUBJECT AREA AND COURSE NUMBER

CLTX 511

COURSE TITLE

SEWN PRODUCT CONSTRUCTION 1

TYPE COURSE

NON-FEE VOCATIONAL

CATALOG COURSE DESCRIPTION

Sewn Product Construction 1 covers the development of basic sewing construction skills used to create apparel and sewn products. The course includes an introduction to sewing tools, machines, fibers, fabrics, patterns, project preparation, product quality, cost, soft and entrepreneurial skills, and sustainable principles. The basic skills are taught using project-based learning principles and hands-on experiences. Skills are evidenced by completed projects and a skills portfolio. (FT)

LECTURE/LABORATORY HOURS

72 - 80

ADVISORIES
None

RECOMMENDED SKILL LEVEL

Basic computer literacy and knowledge of general math.

INSTITUTIONAL STUDENT LEARNING OUTCOMES

1. Social Responsibility
   SDCCE students demonstrate interpersonal skills by learning and working cooperatively in a diverse environment.
2. Effective Communication
   SDCCE students demonstrate effective communication skills.
3. Critical Thinking

SDCCE students critically process information, make decisions, and solve problems independently or cooperatively.

4. Personal and Professional Development
   SDCCE students pursue short term and life-long learning goals, mastering necessary skills and using resource management and self-advocacy skills to cope with changing situations in their lives.
5. Diversity, Equity, Inclusion, Anti-Racism, and Access
   SDCCE students critically and ethically engage with local and global issues using principles of equity, civility, and compassion as they apply their knowledge and skills: exhibiting awareness, appreciation, respect, and advocacy for diverse individuals, groups, and cultures.

COURSE GOALS

1. Learn basic sewn product construction skills used for apparel and sewn products with simple wovens and basic knitted textiles.
2. Gain knowledge of the foundational equipment and tools used in basic sewing.
3. Introduce fibers, basic fabric constructions, and their uses.
4. Understand the basic terms used in sewn product construction.
5. Gain knowledge of general product sewing operations using basic sewing patterns.
6. Gain an understanding of the importance of product quality, cost, and sustainability.
7. Gain an understanding of entrepreneurial and soft skills and their importance in the workplace.

COURSE OBJECTIVES

Upon successful completion of the course the student will be able to:

1. Identify and use the basic tools and machines appropriate for beginning level sewing projects.
2. Identify the basic fibers and types of fabric and explain their function and expected outcome when sewn.
3. Define and explain the impact of sustainability on the fashion industry.
4. Create simple sewn products with woven and knit textiles using entry level sewing construction skills.
5. Demonstrate competence of basic sewn product construction terms as evidenced by following a beginning pattern guide sheet to the completion of the sewing project.
6. Calculate the cost of time and materials for a simple sewn product.
7. Evaluate the quality of the completed sewn products.
8. Demonstrate competence of sewn product construction skills as evidenced by completing a skills portfolio.
9. Explain essential entrepreneurial and soft skills and their application in the workplace.

SECTION II

COURSE CONTENT AND SCOPE

1. Introduction to Sewn Product Construction I & Sewn Product Construction Essentials Program
   - 1.1. Clothing and Textile (CLTX) programs and pathways
     - 1.1.1. San Diego College of Continuing Education (SDCCE) programs and pathways
     - 1.1.2. Credit by exam
   - 1.2. Course learning management system
     - 1.2.1. Canvas
     - 1.2.2. Other supporting software used
2. Essential Entrepreneurial and Soft Skills in the Classroom and Work Environments
   - 2.1. Definition of entrepreneurial and soft skills
   - 2.2. Examples of entrepreneurial and soft skills
     - 2.2.1. Communication skills
     - 2.2.2. Conflict resolution skills
     - 2.2.3. Problem solving
     - 2.2.4. Design thinking
     - 2.2.5. Digital tool skills
3. Equipment, Tools, and Supplies
   - 3.1. Types of sewing machines
     - 3.1.1. Domestic
       - 3.1.1.1. Mechanical
       - 3.1.1.2. Computerized
     - 3.1.2. Sergers
     - 3.1.3. Industrial machines
       - 3.1.3.1. Straight stitch
       - 3.1.3.2. Overlock
   - 3.2 Pressing equipment
     - 3.2.1 Types
     - 3.2.2 Shaping tools
   - 3.3 Hand tools
   - 3.4 Sourcing for supplies
   - 3.5 Safety
4. Patterns
   - 4.1. Commercial patterns
     - 4.1.1. Envelope and guide sheet
     - 4.1.2. Pattern layout
     - 4.1.3. Pattern markings
   - 4.2. Introduction to industry patterns
     - 4.2.1. Marking systems
     - 4.2.2. Cutting systems
5. Fabric, Interfacing, and Notions
   - 5.1. Fabric
     - 5.1.1. Fiber Content
       - 5.1.1.1. Natural

5.1.1.2. Synthetic
5.1.2. Manufacturing of fabric
5.1.2.1. Wovens
5.1.2.2. Knits
5.1.2.3. NonWoven/Felting
5.1.2.4. Others
5.1.3. Fabric terminology
5.1.3.1. Grain
5.1.3.2. Nap
5.1.3.3. Directional fabrics
5.1.4. Fabric selection
5.1.5. Fabric care
5.2. Interfacing
5.2.1. Types
5.2.2. Selection
5.2.3. Applications
5.3. Notions
5.3.1. Definition and types
5.3.2. Selection
5.3.3. Applications
6. Skill Development
6.1. Math skills required for sewn product construction
6.1.1. Measurement systems and conversion tools
6.1.2. Math terminology
6.1.3. Basic math operations
6.2. Measurements
6.2.1. Body measurements
6.2.2. Pattern measurements
6.2.3. Fabric measurements
6.2.4. Finished garment measurements
6.3. Determining pattern size
6.4. Fabric preparation
6.4.1. Pre-shrinking
6.4.2. Straightening of grain
6.5. Reading a pattern
6.5.1. Fabric and notion requirements
6.5.2. Reading the instructions
6.5.3. Pattern layout
6.5.4. Pattern symbols
6.6. Cutting
6.6.1. Cutting with fabric shears
6.6.2. Safely using a rotary cutter
6.7. Marking fabric
6.7.1. Notching
6.7.2. Transferring markings to fabric
6.8. Basic construction skills
6.8.1. Basic machine stitches

- 6.8.1.1. Basting
- 6.8.1.2. Easing
- 6.8.1.3. Top stitching
- 6.8.1.4. Permanent stitching
- 6.8.1.5. Stay stitching
- 6.8.1.6. Zigzag
- 6.8.1.7. Knit stitches as appropriate for the sewing project

6.8.2. Constructing basic seams
- 6.8.2.1. Pressing
- 6.8.2.2. Grading
- 6.8.2.3. Trimming
- 6.8.2.4. Curved
- 6.8.2.5. Clipping
- 6.8.2.6. Notching
- 6.8.2.7. Intersecting

6.8.3. Basic seam finishes
- 6.8.3.1. Pinked
- 6.8.3.2. Pinked with seam
- 6.8.3.3. Clean finish
- 6.8.3.4. Zigzag
- 6.8.3.5. Overcast
- 6.8.3.6. Serged
- 6.8.3.7. Flat fell
- 6.8.3.8. Mock flat-felled

6.8.4. Hand sewing
- 6.8.4.1. Running stitch
- 6.8.4.2. Back stitch
- 6.8.4.3. Slip stitch
- 6.8.4.4. Thread marking
- 6.8.4.5. Buttons

6.8.5. Buttonholes
- 6.8.5.1. Stabilizing fabric
- 6.8.5.2. Machine buttonholes

6.8.6. Casings
- 6.8.6.1. Fold over casing with elastic

6.8.7. Machine stitched hems
- 6.8.7.1. Blind hem
- 6.8.7.2. Fold-over hem

6.8.8. Pockets
- 6.8.8.1. Inseam pocket
- 6.8.8.2. Patch pocket

6.8.9. Zippers
- 6.8.9.1. Introduction to types of zippers
  - 6.8.9.1.1. All purpose
  - 6.8.9.1.2. Invisible
  - 6.8.9.1.3. Separating
- 6.8.9.2. Introduction to types of zipper applications

- 6.8.9.2.1. Centered
- 6.8.9.2.2. Lapped
- 6.8.9.2.3. Invisible
- 6.8.9.2.4. Exposed

6.8.10. Sleeves
- 6.8.10.1. Introduction to types of sleeve construction
  - 6.8.10.1.1. Set-in
  - 6.8.10.1.2. Flat
  - 6.8.10.1.3. Raglan

6.8.11. Introduction to darts
6.8.12. Sewing basic knits
- 6.8.12.1. Seams
- 6.8.12.2. Seam finishes
- 6.8.12.3. Closures

6.9. Pressing
- 6.9.1. Irons
  - 6.9.1.1. Proper use and maintenance
- 6.9.2. Using pressing and shaping tools

7. Sewn Product Quality
   - 7.1. Checking finished product specifications
   - 7.2. Self-evaluating sewn products
8. Sewn Product Cost
   - 8.1. Project cost analysis activity
9. Sewing Skills Portfolio Preparation
   - 9.1. Characteristics of a professional portfolio
10. Application of Sustainable Principles in the Context of Sewn Product Construction
    - 10.1. Definition
    - 10.2. Impact of industry on environment
    - 10.3. Zero waste
    - 10.4. Repurposing materials

APPROPRIATE READINGS

Reading assignments may include, but are not limited to, subject matter textbooks, workbooks, instructor written handouts, industry-related publications, online help pages, articles posted on the internet, information from web sites, online libraries, resource manuals, videos, and tutorials. Topics will be related to sewn product sewing construction and the cut and sew industry.

WRITING ASSIGNMENTS

Appropriate writing assignments may include, but are not limited to:

1. Maintain a portfolio of class notes, samples, and assignments.
2. Complete a basic body measurement chart.
3. Plan sewn product projects using planning document.
4. Compute the cost of the finished sewn product project.

OUTSIDE ASSIGNMENTS

Outside assignments may include, but are not limited to:

1. Independent, further exploration of a class topic.
2. Independent research on developments and latest trends in the clothing and textile industry.
3. Practical application of essential sewing skills on garments or sewn products outside of class assignments.
4. Practical application of sustainable best practices learned in class.

APPROPRIATE ASSIGNMENTS THAT DEMONSTRATE CRITICAL THINKING

Assignments that demonstrate critical thinking may include, but are not limited to:

1. Student self-evaluation of the completed sewn product projects using designated rubric.
2. Use pattern layout diagrams to place pattern pieces onto fabric for cutting.
3. Use a pattern guide sheet or written tutorial to correctly complete sewn product project.

EVALUATION

A student's competency will be based on multiple measures of performance. Assessment will measure the development of independent critical thinking and basic sewing skills. Evaluation of the student's ability will be based on, but not limited to, the following criteria:

1. Completion of the course sewn product projects.
2. Completion of a sewing skills portfolio demonstrating competence of course content.
3. Completion of class participation requirements.

Upon successful completion of all courses included in the program, a Certificate of Program Completion will be issued.

METHOD OF INSTRUCTION

Methods of instruction may include, but are not limited to:

1. Classroom lectures
2. Demonstrations
3. Laboratory
4. Classroom discussions
5. Project based learning opportunities
6. Work based learning opportunities
7. Web-based resources
8. Field trips
9. Guest speakers
10. Video resources
11. Collaborative learning
12. Individual/small group instruction

This course, or sections of this course, may be offered through distance education.

TEXTS AND SUPPLIES

New Complete Guide to Sewing, Reader's Digest Association, Reader's Digest, current edition
Successful Sewing, Westfall, M., Goodheart-Wilcox Company, Inc., current edition
The Sewing Book: An Encyclopedic Resource of Step-by-Step Techniques, Smith, Allison, DK, current edition
Sewing with Knits and Stretch Fabrics, Czachor, S., New York: Fairchild Books, current edition

Web Resources:
Sewing.org, http://sewing.org/html/guidelines.html

Periodicals:
Threads
Sew News
Women's Wear Daily
California Apparel News
Business of Fashion

Supplies:
The student will provide the required sewing and project supplies as listed on class syllabus. The student will need access to a sewing machine outside of the classroom to complete the required assignments, projects, and portfolio.

PREPARED BY: Shirley Pierson MFA DATE: November 2023

Instructors must meet all requirements stated in Policy 5500 (Student Rights, Responsibilities and Administrative Due Process), and the Attendance Policy set forth in the Continuing Education Catalog.

REFERENCES:
San Diego Community College District Policy 5500
California Community Colleges, Title 5, Section 55002
Continuing Education Catalog