

# Clothing and Textiles I

Revised 6-2011

Levels: Grades 9-12

Units of Credit: 0.50

CIP Code: 20.0113

Core Code: 34-01-00-00-090

Prerequisite: Clothing I must precede Clothing II

Skill Test: # 350

## COURSE DESCRIPTION

This course introduces students to basic sewing and pressing equipment, textiles, and introductory level project construction techniques. Student leadership (FCCLA) may be an integral part of this course.

## CORE STANDARDS, OBJECTIVES, AND INDICATORS

### STANDARD 1

Students will be able to recognize basic sewing equipment.

**Objective 1:** Identify sewing machine parts and their function, safety, and maintenance.

- a. Identify the needle stitch plate, feed dogs, presser foot, bobbin case, spool pin, upper thread tension, presser foot lever/lifter, thread take-up lever, foot pedal, handwheel, stitch length control, and stitch width control.
- b. Demonstrate how to thread the sewing machine, replace a needle and how to turn the hand wheel when sewing.
- c. Identify how a stitch is formed (sewing machine forms a stitch when the upper and bobbin threads interlock).
- d. Identify safe sewing procedures (keep fingers a safe distance from needle, foot pedal placement).
- e. Clean, oil, and care for the machine according to machine manual.

**Objective 2:** Introduce the serger and its function.

- a. Discuss the advantages of the serger (cuts excess fabric, sews, and edge finishes)
- b. Practice operating the serger.
- c. Discuss safety and maintenance of a serger (always leave the presser foot down, do not serge over pins, zippers, or excessive bulk).

**Objective 3:** Resolve sewing machine malfunctions.

- a. Identify basic problems encountered when sewing: thread jam, broken needle, and incorrect stitch formation.
- b. Explain solutions to common sewing machine malfunctions (skipped stitches, lint removal, noisy sewing machine, puckered seams, snagged fabric, tension, and looped thread).

**Objective 4:** Identify sewing equipment, function, and safety procedures.

- a. Identify a seam ripper, dressmaker pins, shear/scissors, pinking shears, rotary cutter and mat, seam gauge, tape measure, and transparent rulers.
- b. List sewing equipment safety precautions, procedures, and maintenance.

### STANDARD 2

Students will be able to recognize basic pressing equipment.

**Objective 1:** Identify parts and functions of irons.

- a. Identify temperature settings with different fiber content.
- b. Explain safety procedures.
- c. Explain the maintenance, cleaning and storage of an iron.

**Objective 2:** Identify basic pressing equipment and functions.

- a. Demonstrate the use of a pressing cloth.
- b. Complete pressing/ironing techniques (press as you sew, appropriate pressing of seams).
- c. Demonstrate the use of fusibles.

### **STANDARD 3**

**Students will be able to analyze the characteristics and care of specific textiles.**

**Objective 1:** Identify basic fibers, the characteristics, use and care of each textile.

- a. Identify natural fibers and their characteristics (cotton, linen, silk, wool).
- b. Identify synthetic fibers and their characteristics (nylon, polyester, acrylic, rayon, spandex, acetate).
- c. Identify advantages of blended fibers used in fabrics.
- d. Practice various stain removal techniques (grass, gum, blood, chocolate, make-up, ball point pen; stains set by heat and time).
- e. Select correct laundering procedures based on clothing care labels.

**Objective 2:** Discuss how fabric construction affects selection of fabric.

- a. Identify the terminology of woven fabrics (lengthwise, crosswise, bias, selvage, straight of grain/lengthwise, and cut/raw edge).
- b. Identify the characteristics of woven, knit (interlocking loops), and non-woven/felted fabrics.
- c. Identify correct fabric for project.

### **STANDARD 4**

**Students will use pattern envelope and guidesheet/instructions for pre-construction skills at the introductory level.**

**Objective 1:** Identify the information found on the pattern envelope and instruction guide sheet.

- a. Identify important information on the pattern envelope (appropriate size, fabric type, notions, and yardage)
- b. Identify important information found on the guidesheet (select pattern pieces, layout, and construction steps)
- c. Determine pattern size based on body measurements.

**Objective 2:** Complete pattern preparation.

- a. Identify pattern tissue terminology/symbols (straight of grain arrows, notches, small dots, squares, triangles, buttons and buttonholes, cutting line, fold line).
- b. Complete necessary pattern adjustments (length or width).

**Objective 3:** Correctly layout the pattern pieces on the fabric.

- a. Preshrink fabrics with high cotton content.
- b. Press and straighten grain, if necessary.
- c. Check for one-way and/or nap layout.
- d. Identify correct layout.
- e. Check straight of grain.
- f. Double check all pieces before cutting.

**Objective 4:** Correctly pin and cut out the fabric pieces.

- a. Use correct spacing and positioning of pins (pin perpendicular to pattern edge, inside cutting line).
- b. Select and use appropriate cutting tools.
- c. Cut notches.
- d. Keep the fabric as flat as possible when cutting pattern pieces out.

**Objective 5:** Correctly mark the necessary pattern markings on the fabric pieces.

- a. Identify marking tools and methods.
- b. Select and use the best type of marking for fabric (pins, marking pen/pencil, chalk, tracing wheel and paper)

## **STANDARD 5**

**Students will utilize construction techniques at the introductory level.**

**Objective 1:** Identify and practice basic construction techniques (basting stitch, back stitching, pivoting, clipping, notching, fold line, grading/layering, interfacing, reinforce stitching, seam allowance, seam finishes, selvage, stitching line, top stitching, and right sides together).

**Objective 2:** Examine and select correct thread for the project.

- a. Standard thread is "all purpose".
- b. Specialty threads (quilting, heavy duty, embroidery, metallic)
- c. Serger thread is lighter weight than all purpose sewing machine thread.
- d. Quality thread prevents stitching problems.

**Objective 3:** Compare and select correct needles.

- a. Identify needle types (universal, sharp and ball point)
- b. Needle size/number (smaller size/number needle for fine or lightweight fabrics, larger needle size/number for dense or thicker fabrics)
- c. Insert needle according to machine manual.

**Objective 4:** Identify and construct standard seam widths and markings.

- a. Check guidesheets/instructions for correct seam width (standard seam width for commercial pattern is 5/8 inch).
- b. Identify 1/4, 3/8, 1/2, 5/8, and 3/4-inch width guidelines on the needle stitch plate.

**Objective 5:** Press garment correctly.

- a. Pressing is an up and down motion, ironing is a sliding motion
- b. Press as you sew (never sew over a seam that hasn't been pressed).
- c. Use correct temperature for fabric/fiber content
- d. Use steam/moisture if appropriate
- e. Use pressing cloth to prevent scorching and/or shine marks

## **STANDARD 6**

**Students will demonstrate basic construction techniques.**

**Objective 1:** Complete appropriate seam finishes.

- a. A seam finish is applied to the raw fabric edges, used to prevent raveling/fraying.
- b. Identify terms: zigzagged, serged open, serged closed, clean finished, stitched and pinked.

**Objective 2:** Construct an appropriate casing for the project (1/4" wider than the elastic or draw cord)

**Objective 3:** Construct a patch pocket with mitered corners and reinforced top corners (triangle, horizontal, bartack or double row of topstitching).

**Objective 4:** Construct a buttonhole (length of button hole = depth of button + button diameter)  
Note: This is the correct mathematical equation.

**Objective 5:** Attach a button by using a hand needle and thread.

**Objective 6:** Construct a machine-stitched hem.

**Objective 7:** Demonstrate the ability to follow guidesheet/instructions throughout the project construction.

**Objective 8:** Complete one or more of the following hand stitches: blind stitch, hemstitch, slipstitch, whipstitch, or ladder stitch.