

Clothing 1 – Grades 9-12

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

Concurrent enrollment: not available for this course

Pathway(s): Foundation course for Fashion Design, Manufacturing, & Merchandising pathway – Elective course for Interior Design Pathway

COURSE STANDARDS / OBJECTIVES	INTEGRATED MATH CONCEPTS	INTEGRATED LITERACY CONCEPTS	INTEGRATED SCIENCE CONCEPTS
<p>S-1 Students understand basic sewing equipment O-1: Identify sewing machine parts and their function, safety, and maintenance - PO #1 PO #2 Operate and care for the sewing machine O-2: Introduce the serger and its function O-3: Resolve sewing malfunctions O-4: Identify sewing equipment, function, and safety procedures</p>	<p>O-4 – The Number System Gr. 6 – 6.NS.6. “Understand a rational number as a point on the number line. ...” <i>Measurement and Data Gr. 5 -</i> 5.MD.2. “Make a line plot to display a data set of measurements in fractions of a unit (1/2, 1/4, 1/8).” *measurements on rotary cutter mat and transparent ruler, seam gauge, and tape measure</p>	<p>O-1, O-4 – Reading Standards for Technical Subjects Gr. 9-12 – Craft and Structure #4 – “Determine the meaning of symbols, key terms, and other domain-specific words and phrases as they are used in a specific ... technical context...” *terms – stitch place, feed dogs, presser foot, bobbin case, spool pin, tension, handwheel, seam ripper, shears/scissors, pinking shears, rotary cutter, seam gauge, tape measure</p>	
<p>S-2 Students will understand basic pressing equipment O-1: Identify parts and functions of irons O-2: Identify basic pressing equipment and functions.</p>		<p>O-1, O-2 – Reading Standards for Technical Subjects Gr. 9-12 – Craft and Structure #4 – “Determine the meaning of symbols, key terms, and other domain-specific words and phrases as they are used in a specific ... technical context...” *pressing cloth, fusibles</p>	
<p>S-3 Students will be able to analyze the characteristics and care of specific textiles O-1: Identify basic fibers, the characteristics, use and care of each textile.</p>		<p>O-1, O-2 - Reading Standards for Technical Subjects Gr. 9-12 – Craft and Structure #4 – “Determine the</p>	<p>O-1, O-2 – Chemistry Core – Standard 2 Objective 1d – “After observing spectral emissions in the</p>

<p>O-2: Discuss how fabric construction affects selection of fabric</p>		<p>meaning of symbols, key terms, and other domain-specific words and phrases as they are used in a specific ... technical context..."</p> <p>*natural fibers, synthetic fibers, lengthwise, crosswise, bias, selvage, straight of grain, woven, knit, non-woven-felted</p>	<p>lab (e.g., flame test, spectrum tubes), identify unknown elements by comparison to known emission spectra."</p> <p>*synthetic fibers, how fiber and fabric characteristics are determined by chemical make-up, burn test to identify fibers</p>
<p>S-4 Students will use pattern envelope and guide sheet / instructions for pre-construction skills at the introductory level</p> <p>O-1: Identify the information found on the pattern envelope and instruction guide sheet.</p> <p>PO #3 Determine pattern size based on body measurements</p> <p>O-2: Complete pattern preparation</p> <p>O-3: Correctly layout the pattern pieces on the fabric – PO #4</p> <p>O-4: Correctly pin and cut out the fabric pieces – PO #4</p> <p>O-5: Correctly mark the necessary pattern markings on the fabric pieces – PO #4</p>	<p>O-1 – Expressions and Equations Gr. 7 – 7.EE.3 – “Solve multi-step real-life and mathematical problems posed with positive and negative rational numbers in any form (whole numbers, fractions, and decimals), using tools strategically. Apply properties of operations to calculate with numbers in any form; convert between forms as appropriate; and assess the reasonableness of answers using mental computation and estimation strategies.”</p> <p>*determine cost of needed fabric, supplies, and notions (C = Y x P where “C” is the cost of the fabric, “Y” is the required yardage, and “P” is the price per yard) Note: you may have to convert yardage fraction to a decimal equivalent. To do that, divide the denominator into the numerator – i.e. $\frac{3}{4} = .75$. Then yardage in decimal form and the price per yard.</p> <p>PO #3 - Measurement and Data Gr. 3 - 3.MD.4. “Generate measurement data by measuring lengths using rulers marked with halves and fourths of an inch.”</p> <p>*take body measurements to</p>	<p>O-1, O-2, O-3, O-4, O -5 - Reading Standards for Literacy in Technical Subjects Gr. 9-12 – Craft and Structure #4 – “Determine the meaning of symbols, key terms, and other domain-specific words and phrases as they are used in a specific ... technical context...”</p> <p>*notions, straight of grain arrows, notches, small dots, squares, triangles, button and buttonholes markings, cutting line, foldline, nap, perpendicular, marking methods</p> <p>O-1 – Reading standards for Literacy in Technical Subjects Gr. 9-12 – Integration of Knowledge and Ideas #7 – “Translate quantitative or technical information expressed in words in a text into visual form (e.g., a table or chart) and translate information expressed visually or mathematically (e.g., in an equation) into words.”</p> <p>*appropriate size, fabric type, notions, and yardage</p>	

	<p>determine size</p> <p>O-3 - Measurement and Data Gr. 3 - 3.MD.4. “Generate measurement data by measuring lengths using rulers marked with halves and fourths of an inch.”</p> <p>* measure pattern pieces to get on straight of grain</p> <p><i>Geometry GR.4 – 4.G.1.</i> “Draw points, lines, line segments, rays, angles (right, acute, obtuse), and perpendicular and parallel lines. Identify these in two-dimensional figures.”</p> <p>*straight grain parallel to selvage, grain arrow is symbol for a line, crosswise grain is perpendicular to selvage (perpendicular lines meet at a right angle), bias is 45 degree angle (acute) to straight and crosswise grainlines,</p>		
<p>S-5 Students will utilize construction techniques at the introductory level</p> <p>O-1: Identify and practice basic construction techniques (basting stitch, backstitching, pivoting, clipping, notching, fold line, grading/layering, interfacing, reinforce stitching, seam allowance, seam finishes, selvage, stitching line, top stitching, and right sides together)</p> <p>O-2: Examine and select correct thread for the project</p> <p>O-3: Compare and select correct needles</p> <p>O-4: Identify and construct standard seam widths and markings – PO #5</p> <p>O-5: Press garment correctly – PO #6</p>	<p>O-4 - Measurement and Data Gr. 5 - 5.MD.2. “Make a line plot to display a data set of measurements in fractions of a unit (1/2, 1/4, 1/8).”</p> <p>*identify ¼, 3/8, ½, 5/8, and ¾-inch width guidelines on the needle stitch plate</p> <p><i>Measurement and Data Gr. 3 - 3.MD.4.</i> “Generate measurement data by measuring lengths using rulers marked with halves and fourths of an inch.”</p> <p>*identify and use correct seam width</p>	<p>O-1, O-2 – Reading Standards for Literacy in Technical Subjects Gr. 9-12 – Craft and Structure #4 – “Determine the meaning of symbols, key terms, and other domain-specific words and phrases as they are used in a specific ... technical context...”</p> <p>*basting, back stitching, pivoting, clipping, notching, grading/layers, interfacing, reinforce, seam allowance, selvage, universal, sharp, ball point, etc.</p>	
<p>S-6 Students will understand basic</p>			

<p>construction techniques</p> <p>O-1: Complete appropriate seam and edge finishes –PO #5</p> <p>O-2: Construct an appropriate casing for the project (1/4" wider than the elastic or draw cord) – PO #7</p> <p>O-3: Construct a patch pocket with mitered corners and reinforced top corners (triangle, horizontal, bartack or double row of topstitching)pocket – PO #8</p> <p>O-4: Construct a buttonhole (length of button hole = depth of button + button diameter). – PO #9</p> <p>O-5: Attach a button by using a hand needle and thread – PO # 10</p> <p>O-6: Construct a machine-stitched hem.– PO #11</p> <p>O-7: Demonstrate the ability to follow guidesheet/instructions throughout the project construction. – PO #12</p> <p>O-8: Complete one or more of the following hand stitches: blind stitch, hemstitch, slipstitch, whipstitch, or ladder stitch - PO #13</p>	<p>O-1 – O8 - Measurement and Data Gr. 5 - 5.MD.2. "Make a line plot to display a data set of measurements in fractions of a unit (1/2, 1/4, 1/8)." *use tape measure, hem gauge and stitch plate measures throughout construction <i>Measurement and Data Gr. 3 - 3.MD.4.</i> "Generate measurement data by measuring lengths using rulers marked with halves and fourths of an inch." <i>Number system Gr. 7 – 7.NS.3.</i> "Solve real-world and mathematical problems involving the four operations with rational numbers." *buttonhole length is determined by using the following equations: For a round button: $L = \text{depth of button} + \text{diameter of button} + 1/8 \text{ inch}$ For a square or rectangular button: $L = \text{depth of button} + \text{length of button} + 1/8 \text{ inch}$ Where "L" is the finished length of the buttonhole. (The 1/8 inch is the "ease"). A casing is ¼ wider than the elastic, clean finished edges are ¼ inch, hems and casing depths are measured</p>	<p>O-1, O-2, O-3, O -4, O-8 - Reading Standards for Literacy in Technical Subjects Gr. 9-12 – Craft and Structure #4 – "Determine the meaning of symbols, key terms, and other domain-specific words and phrases as they are used in a specific ... technical context..." *zigzagged, serged open, serged closed, clean finished, stitched and pinked, casing, mitered, depth, width, diameter, blind stitch, slipstitch, whipstitch, ladderstitch</p> <p>O-2, O-3, O-4, O-5, O-6, O-7, O-8 – Reading standards for Literacy in Technical Subjects Gr. 11-12 – Key Ideas and Details #3 – "Follow precisely a complex multistep procedure when ... performing technical tasks; analyze the specific results based on explanations in the text." *follow guide sheet to complete a project and evaluate construction</p>	
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