Hair Coloring

Course Credit	1.0
Grade Levels	9-12
Prerequisites	Cosmetology Fundamentals OR Barbering Fundamentals

Hair Coloring presents techniques for coloring and lightening hair. Emphasis is placed on color application, laws of color, levels and classifications of color, and problem-solving. The course is designed to enable students to identify all classifications of haircolor and their effects on the hair. Topics include safety and sanitation, properties of hair and scalp, principles of hair coloring, concepts of hair lightening, color and lightening applications, and color correction. **It is strongly suggested that students complete Chemical Services before taking Hair Coloring**.

Career and technical student organizations are integral, co-curricular components of each career and technical education course. These organizations enhance classroom instruction while helping students develop leadership abilities, expand workplace-readiness skills, and access opportunities for personal and professional growth. Students in the Cosmetology and Barbering program affiliate with SkillsUSA.

Foundational standards, shown in the table below, are an important part of every course. Through these standards, students learn and apply safety concepts; explore career opportunities and requirements; practice the skills needed to succeed in the workplace; take advantage of leadership, teamwork, and personal growth opportunities afforded by Career and Technical Student Organizations; and learn and practice essential digital skills.The foundational standards are to be incorporated throughout the course.

Each foundational standard completes the stem *"**Students will**..."*

Foundational Standards	
	1. Incorporate safety procedures in handling, operating, and maintaining tools and machinery; handling materials; utilizing personal protective equipment; maintaining a safe work area; and handling hazardous materials and forces. 2. Demonstrate effective workplace and employability skills, including communication, awareness of diversity, positive work ethic, problem-solving, time management, and teamwork. 3. Explore the range of careers available in the field and investigate their educational requirements and demonstrate job-seeking skills including resume-writing and interviewing.

4. Advocate and practice safe, legal, responsible, and ethical use of information and technology tools specific to the industry pathway.
5. Participate in a Career and Technical Student Organization (CTSO) to increase knowledge and skills and to enhance leadership and teamwork.
6. Demonstrate knowledge of current trends in the industry.
7. Explain and practice the concepts related to personal hygiene, physical poise, professional dress, and workplace ethics related to professions within the industry.

HAIR COLORING
CONTENT STANDARDS

Please refer to "Directions for Interpreting Standards" on page 10

Each content standard completes the stem *"**Students will**..."*

Safety and Infection Control

1. Handle and store hair coloring chemicals safely, explaining the rationale for each procedure.
2. Demonstrate client safety procedures for all hair coloring services.
   Examples: patch test, strand test, completing the client record card and release form

Properties of the Hair

3. Analyze a client's hair structure, including texture, density, and porosity, to recommend services and products for hair coloring.
4. Compare and contrast the effects of eumelanin and pheomelanin levels on hair color.
5. Identify natural color levels and explain how they influence the formulation of haircolor chemicals.
   Examples: natural color level system, contributing pigment, base color

Principles of Color Theory	6. Categorize colors as primary, secondary, or tertiary to make recommendations for hair coloring services. 7. Research and report on the roles of tone and intensity in hair color. 8. Determine color choices for various scenarios, identifying and explaining factors that influence decisions. *Examples: plan and conduct experiments to demonstrate possible outcomes of various haircolors on non-pigmented (gray) hair; color harmony, skin tone, complexion, possible contraindications*
Categories of Haircolor	9. Compare and contrast oxidative and non-oxidative haircolor. *Examples: temporary, semi, demi and permanent haircolor; metallic and progressive dyes, natural henna and vegetable dyes* 10. Use knowledge of mathematics and chemistry to assess hair type and properties, to measure and mix developers, and to calculate time needed in order to produce desired end product. *Examples: percentage of strength, oxidation rates, dilution mixing ratios*
Hair Lightening Concepts	11. Explain and demonstrate how the role of developers differs between coloring and lightening. 12. Compare and contrast specific categories of lighteners, their characteristics, and their specific applications. *Examples: powder lighteners; on and off scalp lighteners; clay, oil, and cream lighteners*
Color and Lightener Applications	13. Demonstrate techniques for applying various types of haircolor. *Examples: temporary, semi-permanent, demi-permanent, and permanent haircolor (virgin and retouch)* 14. Demonstrate various types of lightening techniques. *Examples: virgin, retouch, double process* 15. Demonstrate special effect color techniques. *Examples: foiling (weave/slice), freehand painting, balayage*

Color Correction

16. Demonstrate and explain the procedures for toners and color filler applications.
    a. Explain the purpose and overall effects of toners and color fillers on the hair.

17. Determine effective color correction formulation techniques for various scenarios.
    Examples: too dark or light, unwanted pigment, restoring blonde to natural hair color, refreshing faded colors

18. Select and recommend products that will help clients maintain color-treated hair.