

## Standards and Competencies for Chemistry of Cosmetology (Course # 5340)

	Begin-End Yr
Standard 1 - Students will interpret and demonstrate the basic principles of safety, sterilization and sanitation as it relates to chemical services performed in cosmetology.	2009 -
1.1 - Implement the safety and sanitation procedures established by state law. **	2009 -
1.2 - Comply with the Department of Health Rules and the Tennessee Board of Cosmetology Rules and Regulations. **	2009 -
1.3 - Distinguish the difference between safe and dangerous experimentation. ***	2009 -
Standard 2 - Students will analyze procedures for cleansing and reconditioning the hair and the scalp	2009 -
2.1 - Evaluate the chemistry of water and its relationship to cleansing agents and conditioners. *	2009 -
2.2 - Differentiate between the chemical make-up of soaps, detergents, and surfactants. **	2009 -
2.3 - Research and compare basic types of surfactants. **	2009 -
Standard 3 - Students will create harmony using design principles and elements	2009 -
3.1 - Evaluate the chemical elements involved in the principles of hair design. **	2009 -
3.2 - Evaluate chemicals used in the development of styling products. ***	2009 -
3.3 - Relate styling and finishing results to the chemicals used. **	2009 -
Standard 4 - Students will evaluate hands and feet for cosmetic procedures	2009 -
4.1 - Evaluate the structure and chemical make-up of the nail. **	2009 -
4.2 - Examine the difference between physical and chemical change. ***	2009 -
4.3 - Evaluate the purpose of a catalyst and its effects on the nail. **	2009 -
4.4 - Compare solvents and solutes. **	2009 -
4.5 - Evaluate the use of adhesives and primers. **	2009 -
Standard 5 - Students will formulate cosmetic procedures and applications to enhance a client's appearance	2009 -
5.1 - Evaluate products based on chemical make-up for use on different types of skin. **	2009 -
5.2 - Evaluate products to determine SPF (Sun Protection Factor). **	2009 -
5.3 - Evaluate products to determine skin absorption factors. ***	2009 -
5.4 - Examine the physical and chemical classifications of cosmetics. ***	2009 -
Standard 6 - Students will evaluate basic actions of chemicals, as they relate to the cosmetology industry	2009 -
6.1 - Differentiate between sulfur, hydrogen, and disulfide bonds in the hair. ***	2009 -
6.2 - Evaluate the chemical classifications of hair coloring and hair lighteners. **	2009 -
6.3 - Evaluate color effects on melanin. **	2009 -
6.4 - Evaluate the chemical classifications of permanent waves. ***	2009 -
Standard 7 - Students will demonstrate leadership, citizenship, and teamwork skills required for success in the school, community, and workplace.	2009 -
7.1 - Demonstrates dignity in work. **	2009 -
7.2 - Participate in SkillsUSA as an integral part of classroom instruction. **	2009 -
7.3 - Evaluate school, community, and workplace situations by applying problem-solving and decision-making skills. **	2009 -
7.4 - Demonstrate the ability to work professionally with others. **	2009 -