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| **Chemistry of Cosmetology Pacing Guide First Semester** |
|  | **1st Quarter** | **TN Standards** | **Lesson Focus** | **Additional Notes** |
|  | Week 1 | **STANDARD 1.0** Students will perform safety examinations and maintain safety records.  | Classroom rules and regulations |  |
| Week 2 | * **1.1**Pass with 100% accuracy a written examination on safety issues specific to this  course of study.
* **1.2**Pass with 100% accuracy a performance examination on tools and equipment  specific to this course of study.
* **1.3**Maintain a portfolio record of written safety examinations and equipment  examinations for which the student has passed an operational checkout by the  instructor.
 | Safety | * Tennessee Cosmetology Laws and Regulations
* Employability Skills
* Passes with 100% accuracy a written examination on safety issues specific to this course of study.
* Passes with 100% accuracy a performance examination on tools and equipment specific to this course of study.
* Maintains a portfolio record of written safety examinations and equipment examinations for which the student has passed an operational checkout by the instructor.
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| Leas | * **1.4**Follow rules and regulations to comply with personal and lab safety standards to  include general standards, fire, electrical, and EPA prevention in corrective measures  in the industry.
 | Rules and Regulations | * Employability Skills
* Lab Skills
* Demonstrates and followsproceduresfor classroom and lab safety, fire safety, and electrical safety, first aid practice and universal precaution procedures (ex., blood spill).
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| Week 4 | * **1.5**Practice and apply health and safety OSHA standards as they pertain to the course of  study.
 | Safety | * Employability Skills
* Lab Skills
* Assesses and applies health and safety OSHA standards as they pertain to the course.
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| Week 5 | * **1.6**Select tools, technology, machinery, equipment, and materials appropriate for the  given assignment.
 | Safety | * Employability Skills
* Lab Skills
* Demonstrates appropriate use of tools to complete assignment and maintain safe environment.
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| Week 6 | * **1.7**Comply with Department of Health Standards and Tennessee State Board of  Cosmetology Rules and Regulations.
 | Safety | * Employability Skills
* Lab Skills
* Comply with Department of Health Standards and Tennessee State Board of Cosmetology Rules and Regulations.
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| Week 7 | **STANDARD 2.0** Students will demonstrate leadership, citizenship, and teamwork skills required for success in the school, community, and workplace.  | Leadership | ProfessionalismEmployability SkillsTeamwork |
| Week 8 | * **2.1**Cultivate positive leadership skills professional image of the trade.
* **2.2**Participate in the student organization directly related to their program of study as an  integral part of classroom instruction.
 | Leadership | * Professionalism
* Employability Skills
* Teamwork
* Leadership
* SkillsUSA
* Demonstrates character and leadership using creative- and critical-thinking skills.\*
* Uses creative thought process by “thinking outside the box.”
* Exemplifies acceptable dress and personal grooming identified by the associated trade.
* Relates the creed, purposes, motto, and emblem of the Career and Technical Student Organization (CTSO) directly related to personal and professional development.
* Plans and conducts formal and informal meetings according to accepted rules of parliamentary procedure.
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| Week 9 | * **2.3**Assess situations, apply problem-solving techniques and decision-making skills  within the school, community, and workplace.
* **2.4**Participate as a team member in a learning environment.
 | Leadership | * Problem Solving
* Conflict Resolution
* Makes decisions and assumes responsibilities.
* Analyzes a situation and uses a form of professional development procedure which is directly related to the student’s program of study to resolve the situation.
* Understands the importance of learning new information for both current and future problem solving and decision making.
* Organizes committees and participates in functions.
* Cooperates with peers to select and organize a community service project.
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|  | **End of 1st Quarter** |   |
|  | **Fall Break** |
|  | **2nd Quarter** | **TN Standards** | **Lesson Focus** | **Additional Notes** |
|  | Week 1 | * **2.5**Respect the opinions, customs, and individual differences of others.
* **2.6**Identify career interests, strengths, and opportunities in order to build personal career  development.
 | Leadership | * Teamwork
* Problem Solving Skills
* Conflict Resolution
* Career Interest Survey
* Employability Skills
* Professionalism
* Researches different customs and individual differences of others.
* Interacts respectfully with individuals of different cultures, genders, and backgrounds.
* Resolves conflicts and differences to maintain a smooth workflow and classroom environment.
* Creates personal career development by identifying career
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| Week 2 | * **2.7**Incorporate professional and technical terminology in the classroom environment.
 | Leadership | * Industry Terminology
* Chooses terminology to identify according to assigned task.
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| Week 3 | **STANDARD 3.0** Students will integrate reading, writing, math, and science skills and understand the impact of academic achievement in the work place.  | Life Skills |  |
| Week 4 | * **3.1**Assume responsibility for accomplishing classroom assignments and workplace  goals within accepted time frames which relate to industry.
* **3.2**Develop advanced study skills.
 | Life Skills | * Time Management
* Study Skills
* Uses appropriate time management to achieve goals.
* Arrives at school on time each day.
* Completes assignments and meets deadlines.
* Assesses current personal study skills.
* Demonstrates advanced record keeping and maintaining client consultation information.
* Formulates appropriate study strategies for given tasks.
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| Week 5 | * **3.3**Demonstrate and use written and verbal communication skills.
* **3.4**Read and understand technical documents such as regulations, manuals, reports,  forms, graphs, charts, and tables.
 | Life Skills | * Communication
* Reading Comprehension
* Communicates ideas, information, and messages in a logical manner.
* Fills out forms, reports, logs, and documents to comply with class and project requirements.
* Reads and understands technical documents and uses industry jargon, acronyms, and terminology appropriately.
* Recognizes the meaning of specialized words or phrases unique to the career and industry.
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| Week 6 | * **3.5**Apply the foundations of mathematical principles such as algebra, geometry, and  advanced math to solve problems.
* **3.6**Apply basic scientific principles and methods to solve problems and complete tasks.
 | Life Skills | * Math Skills
* Scientific principles
* Utilizes computation in adding, subtracting, multiplying, and dividing of whole numbers, fractions, decimals, and percents.
* Chooses the right mathematical method or formula to solve a problem.
* Performs math operations accurately to complete classroom and lab tasks.
* Comprehends scientific principles critical to the course.
* Applies scientific principles and technology to solve problems and complete tasks.
* Has knowledge of the scientific method (e.g., identifies the problem, collects information, forms opinions, and draws conclusions).
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| Week 7 | * **3.7**Understand computer operations and related applications to input, store, retrieve,  and output information as it relates to the course.
* **3.8**Research, recognize, and understand the interactions of the environment and *green*  issues as they relate to the course work and to a global economy.
 | Life Skills | * Technology
* Environmental Issues
* Uses basic computer hardware (e.g., PCs, printers) and software to perform tasks as required for the course work.
* Understands capabilities of computers and common computer terminology (e.g.,program, operating system) as technology relates to appropriate field.
* Applies the appropriate technical solution to complete tasks.
* Inputs data and information accurately for the course requirements.
* Researches and recognizes *green* trends in career area and industry.
* Examines current environmentally-friendly trends.
* Applies sustainability practices by understanding processes that are non-polluting, conserving of energy and natural resources, and economically efficient.
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| Week 8 | **STANDARD 4** Students will analyze procedures for cleansing and reconditioning the hair and the scalp.  | Shampooing and Conditioning |  |
| Week 9 | * **4.1**Analyze scalp and hair and prescribe cleansing and reconditioning treatments.
* **4.2**Demonstrate brushing techniques for various services.
* **4.3**Prescribe scalp and neck manipulations to be administered.
 | Shampooing and Conditioning | * Hair and Scalp Analysis
* Organizes products
* Product Selection
* Professional Terminology
* Selects shampoos and conditioners based on water chemistry in the area.
* Analyzes the effects of hard and soft water in relation to shampoos and conditioners.
* Evaluates the shampoo molecule and its purpose.
* Compares the pH (potential hydrogen) of soaps, detergents, and surfactants.
* Provide researched based examples of surfactants in comparative form.
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|  | **End of 2nd Quarter** |  |
|  | **End of 1st Semester** |  **Semester I Exam** |
|  | **Winter Break** |
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| **Chemistry of Cosmetology Pacing Guide Second Semester** |
|  | **3rd Quarter** | **TN Standards** | **Lesson Focus** | **Additional Notes** |
|  | Week 1 | **STANDARD 5.0** Students will create harmony using design principles and elements.  | Design Principles and Elements | Demonstrate form, shapes and space in hair design |
| Week 2 | * **5.1**Evaluate chemicals used for chemically retexturing the hair.
 | Design Principles and Elements | * Distinguish facial shapes and use in elements of design.
* Distinguishes between chemical elements used in physical and chemical styling.
* Diagrams the chemical bonds in the hair and demonstrates changes with the use of  various chemicals.
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| Week 3 | * **5.2**Evaluate chemicals used in the development of styling products.
 | Design Principles and Elements | * Composes various hair designs
* Combines styling techniques to create new designs,
* Analyzes the ability to mold, shape, and restructure hair based on chemicals used.
* Evaluates the effect of styling and finishing products on the hair shaft based on  chemical makeup of products used.
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| Week 4 | **STANDARD 6.0** Students will evaluate hands and feet for cosmetic procedures.  | Nail Structure and GrowthNail Disorders and Diseases |  |
| Week 5 | * **6.1**Evaluate the structure and chemical makeup of the nail.
* **6.2**Examine the difference between physical and chemical change.
 | Nail Structure and GrowthNail Disorders and Diseases | * Analyzes the structure of the nail.
* Demonstrates the ability to create a physical and a chemical change.
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| Week 6 | * **6.3**Evaluate the purpose of a catalyst and its effects on the nail.
* **6.5**Evaluate the use of adhesives and primers.
 | Nail Structure and GrowthNail Disorders and Diseases | * Analyzes the nail before and after the use of catalysts.
* Evaluates the purpose and use of solvents and solutes.
* Demonstrates the use of adhesives and primers.
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| Week 7 | **STANDARD 7.0** Students will formulate cosmetic procedures and applications to enhance a client’s appearance.  | Skin Structure and GrowthFacial Make UpSun Protection |  |
| Week 8 | * **7.1**Evaluate product ingredients based on chemical makeup for use on different types  of skin.
 | Skin Structure and GrowthFacial Make Up  | * Sanitation and Safety Precautions
* Demonstrate proper use of tools and cosmetics
* Selects facial products based on skin analysis and skin type.
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| Week 9 | * **7.2**Evaluate products to determine SPF (Sun Protection Factor).
 | Skin Structure and GrowthSun Protection | * Selects facial products based on skin analysis and skin type
* Determines and selects appropriate SPF (Sun Protection Factor) products based on  skin analysis and skin type.
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|  | **End of 3rd Quarter** |  |
|  | **4th Quarter** | **TN Standards** | **Lesson Focus** | **Additional Notes** |
|  | Week 1 | **STANDARD 8.0** Students will evaluate basic actions of chemicals as they relate to the cosmetology industry.   | Chemistry |  |
| Week 2 | * **8.1**Differentiate between sulfur, hydrogen, and disulfide bonds.
* **8.2**Identify and evaluate the pH and chemical classifications of hair coloring and hair  lighteners.
 | Chemistry Haircoloring | * Identifies and examines the effects of water on shape memory and chemical bonds  in the hair.
* Examines the effects of chemicals on shape memory.
* Assesses and develops methods to prevent possible hair breakage during chemical  applications to the hair.
* Applies, evaluates, and assesses the applications of permanent wave solutions,  chemical relaxers, hair coloring, and hair lighteners to the hair.
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| Week 3 | * **8.3**Evaluate color effects on melanin.
 | Haircolor theory | * Designs a color chart to demonstrate hair coloring effects to the hair.
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| Week 4 | **STANDARD 9.0** Students will research and compose information concerning the entrepreneurial possibilities in the cosmetology industry  |  |  |
| Week 5 | * **9.1**Examine information through various media publications and/or interviews with  professionals within the industry concerning the cosmetology industry.
 | Salon Business | * Prepares a presentation derived from various research-based information on the  future trends in the cosmetology industry.
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| Week 6 | * **9.3**Study the retail business associated with the cosmetology industry.
 | Salon Business | * Researches retail items and does a comparative approach project to identify different  facets within the cosmetology industry’s retail environment.
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| Week 7 | **STANDARD 10.0** Students will evaluate texturizing techniques in hair shaping.  | Haircutting |  |
| Week 8 | * **10.1**Differentiate thinning and texturizing.
 |  | * Perform a correct thinning procedure.
* Perform a correct texturizing procedure.
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| Week 9 | * **10.3**Distinguish the difference between blended haircuts and detached haircuts.\*\*
* **10.4**Identify the use of clippers.
 |  | * Perform a basic blended cut and perform texturizing technique to create a different look.
* Compare the usage of a taper clipper to a finishing clipper.
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|  | **End of 4th Quarter** |  |
|  | **End of 2nd Semester** |  **Semester II Exam** |