

RANGER COLLEGE
COURSE SYLLABUS

PROGRAM: Cosmetology
COURSE TITLE: Chemical Reformation & Related Theory
COURSE NO. CSME 1553
HOURS: 5 Credit 2 Lecture, 9 Lab
CLASS HOURS: 8:00 AM - 5:00 PM, Mon.- Thurs. 8:00 AM – 1:00 PM Fridays
(Saturdays if needed –example: bad weather day)
OFFICE TELEPHONE: (325) 646-0022

Program Director/Instructor:

Name: Wendy Herrod
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Office Hours: 9:30 till 4:00 by Appointment

- I. CATALOG DESCRIPTION: Presentation of the theory and practice of chemical reformation. Topics include terminology, application, and workplace competencies related to chemical reformation.
- II. REQUIRED BACKGROUND: Co-requisite: CSME 1401
- III. TEXTS, OTHER REFERENCES MATERIALS: Milady's Standard Cosmetology, 2016 ed.
TDLR Statutes
- IV. METHODS OF INSTRUCTION: This course will be conducted in a cosmetology lab, hands-on experience requiring audio-visual aids, transparencies, and class demonstrations will constitute the major portion of the class.
- V. METHODS OF EVALUATION:

Individual practical sheet with criteria included: 50%
Written unit tests..... 25%
Final written and practical exams..... 25%

A = 90-100
B = 80-89
C = 70-79
D = 60-69
F = 0-59

VI. MAKE-UP EXAMINATIONS

All weekly tests are to be taken in theory class time periods. Students must make up test upon re-entering the FIRST day of class after the absence. One make-up test only; others will be graded as "0". Semester final practical examinations will be made up at the instructor's discretion and convenience.

VII. ATTENDANCE REQUIREMENTS

There are (extra) clock hours in excess of the 1500 hours required by the Texas Department of Licensing and Regulation. Regular attendance is a must for students to complete the course. He/she will have to pay tuition and return for make up hours if hours are not completed. For additional attendance requirements see cosmetology handbook.

VIII. COURSE/CALENDAR

The following is a tentative schedule and is subject to change. Circumstances may cause the schedule to be modified.

Week 1	Orientation, Syllabus, Policy and Guidelines, introduction to textbooks.
Week 2	TDLR Safety and Sanitation Criteria
Week 3	Chapter 5 Infection Control
Week 4	Chapter 6 Anatomy & Physiology
Week 5	Chapter 11 Properties of Hair & Scalp
Week 6	Chapter 11 Properties of Hair & Scalp
Week 7	Chapter 16 Haircutting
Week 8	Chapter 16 Haircutting
Week 9	Chapter 12 Chemistry
Week 10	Chapter 20 Permanent Waving
Week 11	Chapter 20 Permanent Waving
Week 12	Chapter 20 Chemical Relaxing
Week 13	Research Project (to be announced)
Week 14	Review for Final Exam
Week 15	Final Exam

Chapter reviews on Thursdays

Tests on Fridays

All assignments due on test days unless told different

Skills introduced will be checked each day by Instructor

Weekly kit bag will be turned in for a grade (instructor will assign)

IX. COURSE/CLASSROOM POLICIES

Students are expected to take responsibility in helping to maintain a classroom environment that is conducive to learning. In order to assure that all students have the opportunity to gain from the time spent in class, students are **prohibited from using cell phones, beepers or any electronic devices, making offensive remarks, reading material not related to class, sleeping, or engaging in any other forms of distraction.** Inappropriate behavior in the classroom shall result, at a minimum, in a **request to leave class and clock out.** A more detailed list of inappropriate behaviors is found in the current cosmetology handbook

X. LEARNING OBJECTIVES

A. CHAPTER 12 – CHEMISTRY

1. Define organic and inorganic chemistry and know the differences between them.
2. Discuss the types of matter.
3. Describe the composition of elements, compounds, and mixtures.
4. Describe the properties of matter, elements, compounds, and mixtures.
5. Define acids and alkalizes and know the differences between them.
6. Describe the chemistry of water.
7. Describe the classification of shampoos and types of conditioners.
8. Describe the composition of hair before, during, and after permanent waving and chemical hair relaxing.
9. Describe the composition of hair before, during and after hair coloring.
10. Describe the physical and chemical classifications of cosmetics.
11. Discuss the basic chemistry, types, and action of professional products.

B. CHAPTER 20 – CHEMICAL TEXTURIZING (PERMANENT WAVING)

1. Discuss the history of permanent waving.
2. Define the pre-heat method, machine permanent wave, and the heat permanent wave.
3. Define the croquignole method and spiral wrap and the reasons for the two methods,
4. Discuss the major physical and chemical actions of the hair during the waving procedures.
5. Discuss the scalp analysis.
6. Discuss the hair analysis.
7. Discuss the types of waving rods and end papers.
8. List the information a permanent wave record card should include.

9. List the reasons for proper shampooing techniques.
10. Discuss the precaution for hair cutting with a permanent.
11. Discuss the necessity of pre-saturation of the wave solution.
12. Discuss the types of sectioning.
13. Discuss the types of sub-sectioning needed for various densities, textures and lengths of hair prior to perming.
14. List all methods and describe the technique for wrapping perms including the need for wrap.
15. List the problems involved that can cause a perm to fail.
16. Discuss rod placement and precautions.
17. Discuss the need and precautions for re-saturation.
18. Discuss the reasons for varying processing times.
19. Describe what a test curl looks like when processing is completed.
20. Describe the test curl procedures.
21. Discuss the reasons for a preliminary test curl.
22. Discuss the necessity and procedures of removing the waving lotion.
23. Discuss the chemical action and procedure of neutralizing.
24. Analyze the precaution for rod removal and rinsing neutralizer from the hair.
25. List the effects of over processing and under processing permed hair.
26. Discuss the precautions for waving tinted, lightened, and damaged hair.
27. Describe the process for relaxing a permanent wave.
28. List the major safety and sanitary precautions.

C. CHAPTER 20- CHEMICAL TEXTURIZING (CHEMICAL HAIR RELAXING AND SOFT CURL PERMANENT)

1. Describe the types of products used for hair relaxing.
2. List the terms used for hair relaxing.
3. Describe the basic procedure for a curl re-forming service.
4. Discuss the scalp and hair analysis prior to straightening.
5. Describe the procedure for a chemical relaxer .
6. List the information needed on the record card.
7. List the procedure for a sodium hydroxide straightening with base.
8. Discuss the procedure for a chemical relaxing retouch.
9. Describe procedure for reverse perm.
10. List the safety and sanitary precaution for chemical relaxing.

XI. COURSE COMPETENCIES:

Upon completion of this course, the student should be able to:

1. Analyze and prescribe correct solutions to hair.
Pass a written examination over the process of chemical waving and

- straightening the hair with a grade of 75 or above.
2. Section and wrap a permanent wave on a client in 60 minutes from the standards outlined for the student.
 3. Follow manufactures directions for permanent waving and straightening within a reasonable time.
 4. Complete a chemical relaxing retouch on a client following the directions of the manufacturer and instructor within 30 minutes.
 5. Demonstrate the variations of wrapping techniques as needed for designed styles.
 6. Students will successfully complete the exit (capstone) exam.

XI. SCAN COMPETENCIES:

The Secretary's Commission on Achieving Necessary Skills (SCAN) identified competencies in the area of Resources, Interpersonal, Information, Systems and Technology, and foundation skills in the areas of Basic Skills, Thinking Skills and Personal Qualities. This course is part of a program in which each of these competencies and skills are integrated. For application of specific SCANS competencies and skills in this course, see attached form.

XII. ADA STATEMENT

Ranger College provides a variety of services for students with learning and/or physical disabilities. The student is responsible for making the initial contact with the Ranger College Counselor. It is advisable to make this contact **before** or **immediately** after the semester begins.

XIII. NON-DISCRIMINATION STATEMENT:

Admissions, Employment, and Program Policies of Ranger College are non-discriminatory in regard to Race, Creed, Color, Sex, Age, Disability, and National Origin.

Cosmetology Program
Assessment Matrix

CSME: 1553- Chemical Reformation & Related Theory

STUDENTS LEARNING OUTCOMES	SCANS	1310	1401	1405	1443	1447	1451	1553	2237	2343	2441	2501	Chapter Test	Demo of skills
1) Explain & demonstrate the differences between sanitation, disinfection, sterilization and the universal precautions that are your responsibility as a salon professional.	1,2,3,4,5,7	x	x	x	x	x	x	x	x	x	x	x	x	x
2) Demonstrate proper shampooing and conditioning technique.	1,2,4,5			x				x					x	x
3) Demonstrate the proper procedure for haircutting with a razor and clipper tools.	1,2,3,4,7	x											x	x
4) Demonstrate finger waving, braids, basic roller setting, pin curl, thermal straightening, curling, and blow drying.	1,2,3,4,5,7						x	x	x				x	x
5) Demonstrate basic permanent wave	1,2,3,4,5							x					x	x
6) Demonstrate basic and hot oil manicures incorporating all safety, sanitation and disinfection requirements. Basic application of artificial nails.	1,2,4,5				x								x	x
7) Identify, define and describe the cells and tissue of the human body. Explain the ten body systems and their functions.	1,2,4,5		x										x	x
8) Perform and explain the chemical and physical actions for relaxers, cold waves, and curl reformation services and their chemical used.	1,2,3,4,5,7							x					x	x
9) Identify color theory, list 4 basic categories of color and demonstrate the application of each. Explain each effect on the hair. Explain the action of hair lighteners, demonstrate application techniques and explain the effects and action on the hair.	1,2,3,4,7											x	x	x

