

## COURSE SYLLABUS

**COURSE: COS 224 TRICOLOGY & CHEMISTRY**

**HOURS:** Lecture: 1 Lab: 3 Shop/Clinical: 0 Credits: 2

### COURSE DESCRIPTION:

This course is a study of hair and the interaction of applied chemicals. Emphasis is placed on pH actions and the reactions and effects of chemical ingredients. Upon completion, students should be able to demonstrate an understanding of chemical terminology, pH testing, and chemical reactions on hair.

**PREREQUISITE(S):** COS 111, COS 112

**COREQUISITE(S):** COS 113, COS 114

### TEXTBOOK(S) & OTHER SPECIAL REQUIREMENTS:

Halal, John. *Hair Structure and Chemistry, Simplified. 5<sup>th</sup> Edition*. Florence, KY: Cengage Learning, 2009. Print. ISBN# 9781428335585  
Readability Level: 10

Hala, John. *Workbook for Halal's Hair Structure and Chemistry, Simplified. 5<sup>th</sup> Edition*. Florence, KY: Cengage Learning, 2009. Print.  
ISBN# 9781428335608  
Readability Level: 10

Hala, John. *Exam Review for Halal's Hair Structure and Chemistry, Simplified. 5<sup>th</sup> Edition*. Florence, KY: Cengage Learning, 2009. Print.  
ISBN# 9781428335615  
Readability Level: 10

### STUDENT LEARNING OUTCOMES:

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

1. Identify the PH scale, the actions and reactions of chemical ingredients used on hair.
2. Explain the importance of salon health and safety.
3. List some of the basic facts about what science is and is not.
4. List four basic facts about cells.
5. Explain how germs grow and spread and how to protect hairstylists and clients from contracting infectious diseases.
6. Describe the basic skin structure.
7. Explain how to protect themselves from dangers of exposure to ultraviolet radiation.

8. Explain contact dermatitis.
9. Explain and demonstrate the necessity of wearing protective gloves.
10. Explain the structure of hair.
11. Explain the physical properties of hair.
12. Explain hair loss treatments and proper nutrition.
13. Explain the science of chemistry and properties of matter.
14. Explain the PH scale.
15. Explain oxidation-reduction (redox) reactions.
16. Explain the properties of surfactants and emulsions.
17. Explain the chemistry of shampoo.
18. Explain the chemistry of hair conditioners.
19. Explain the chemistry of styling aids.
20. Explain the theory of hair lightening.
21. Demonstrate the safety rules associated with hair lightening.
22. Define the actions of temporary, traditional, semi-permanent, long lasting semi-permanent and permanent hair coloring.
23. Describe the action of fillers, toners, color removers, and accelerators.
24. Explain the action of non-oxidative permanent hair color.
25. Demonstrate safety relating hair coloring products and techniques.
26. Explain the theory of permanent waving.
27. Name the various types of perm waves.
28. Explain the process of neutralization in perm waving.
29. Demonstrate safety precautions relating to perm waving.
30. Define ammonium thioglycolate relaxers and soft curl permanents.
31. Explain the action of a hydroxide relaxer and its PH.
32. Demonstrate safety precaution relating to hair relaxers.

### **SYLLABUS INFORMATION:**

The Student Learning Outcomes listed in this syllabus are those required actions that a student who successfully completes the course must be able to perform. The educational experience, however, is a two-way, interactive process involving both the student and the instructor. The student must play an active role in the learning process in order to be successful. Instructors will provide an Instructor's Syllabus at the first class meeting explaining how they measure each of the Student Learning Outcomes. A student who is unable to accomplish the outcomes will not receive a passing grade in the course.

The information in this BCC Syllabus may not be accurate beyond the current semester. Textbooks and other course materials are subject to change. Students should verify the textbooks at the first class meeting with their instructor prior to purchasing.

### **GRADING SYSTEM:**

Brunswick Community College employs a system of letter grades and corresponding quality points per grade to evaluate a student's performance in meeting the stated goals and objectives for each course. The grading system is published in the BCC Catalog and Student Handbook.

## **ATTENDANCE POLICY:**

Each student has individual responsibility for attending class regularly and for meeting course objectives. A student is expected to attend all class meetings in a course. Rules on tardiness and leaving class early are addressed in each instructor's syllabus. Instructors are required to record absences and report excessive absenteeism to the Registrar.

If a student is absent for any reason in excess of 20 percent of the class hours, he or she is in violation of the Brunswick Community College attendance policy. Unless the student officially withdraws from the course prior to the 65 percent point of the 16 week semester (or equivalent days for courses of other duration), he or she may receive a grade of "F."

Students who receive an "EXCESSIVE ABSENTEEISM NOTICE" are advised to contact their instructors immediately to review the conditions for withdrawing from the course or for continuing the course.

## **STUDENTS WITH DISABILITIES:**

Brunswick Community College complies with the Americans with Disabilities Act and Section 504 of the Rehabilitation Act, which require that no qualified student with a disability be excluded from participation in or be denied the benefits of any services, programs or activities on the basis of his or her disability. If a student has a disability that is covered by the Americans with Disabilities Act and requires accommodations in the classroom and/or in extracurricular activities, the student must request the accommodations in writing and submit the request to the Disability Services Coordinator. Instructors will not provide accommodations without notification from the Disability Services Coordinator. Brunswick Community College will make every effort to provide reasonable accommodations.