SYLLABUS

DATE OF LAST REVIEW: 02/2013
CIP CODE: 12.0401
SEMESTER: Departmental syllabus
COURSE TITLE: Scientific Concepts
COURSE NUMBER: COSM0101
CREDIT HOURS: 5
INSTRUCTOR: Departmental syllabus
OFFICE LOCATION: Departmental syllabus
OFFICE HOURS: Departmental syllabus
TELEPHONE: Departmental syllabus
EMAIL: KCKCC issued email accounts are the official means for electronically communicating with our students.

PREREQUISITES: Meet requirements for Kansas Board of Cosmetology Apprentice License.

REQUIRED TEXT AND MATERIALS: Please check with KCKCC bookstore, http://www.kckccbookstore.com/, for the required texts for your particular class.

COURSE DESCRIPTION: This course provides classroom instruction in sanitation, hair and scalp, skin, nails for 115 hours as prescribed by the Kansas Board of Cosmetology.

METHOD OF INSTRUCTION: A variety of instructional methods may be used depending on content area. These include but are not limited to: lecture, multimedia, cooperative/collaborative learning, labs and demonstrations, projects and presentation, speeches, debates, panels, conferencing, performances, and learning experiences outside the classroom. Methodology will be selected to best meet student needs.

COURSE OUTLINE:
I. Sanitation, 40 hours
   A. Personal hygiene
   B. Public sanitation
   C. Methods of sanitation
   D. Chemistry of sanitation products
   E. Safety precautions – Universal precautions
   F. First aid
II. Hair and scalp, 35 hours
   A. Structure
   B. Composition
C. Blood, nerve, and muscle supply and function
D. Growth and regeneration
E. Analysis
F. Conditions and disorders

III. Skin, 20 hours
A. Structure
B. Function
C. Blood and nerve supply and function
D. Conditions
E. Disorders

IV. Nails, 20 hours
A. Structure
B. Composition
C. Growth and Regeneration
D. Irregularities
E. Disorders and diseases

EXPECTED LEARNER OUTCOMES:

A. The student will be able to explain and demonstrate sanitation practices as prescribed by Kansas Board of Cosmetology.
B. The student will be able to describe and implement safety precautions as prescribed by OSHA for the salon and spa.
C. The student will be able to describe simple safety and first-aid applications for cuts, minor burns, choking, fainting, and eye injury.
D. The student will be able to identify the anatomy of the hair and scalp.
E. The student will be able to explain the growth and regeneration of the hair and scalp.
F. The student will be able to analyze the form, length, texture, density and porosity of the hair.
G. The student will be able to identify conditions and disorders of the hair and scalp.
H. The student will be able to describe the anatomy of the skin.
I. The student will be able to identify conditions and disorders of the skin.
J. The student will be able to explain the anatomy of the nail.
K. The student will be able to explain the growth and regeneration of the nail.
L. The student will be able to describe irregularities, disorders and diseases of the nail.

COURSE COMPETENCIES:

Upon successful completion of the course:

_The student will be able to explain and demonstrate sanitation practices as prescribed by Kansas Board of Cosmetology._

1. The student will be able to recognize and implement good personal hygiene.
2. The student will be able to explain public sanitation.
3. The student will be able to recognize the structure and function of bacteria and viruses by types, classifications, growth and reproduction patterns and relationship to the spread of infection.
4. The student will be able to describe the three levels of infection control and explain the procedures and precautions for each level.
5. The student will be able to identify two regulating agencies that enforce safety and health standards in the workplace and describe their specific functions.
6. The student will be able to explain how infection control equipment works to prevent cross-contamination.
7. The student will be able to list and define the common chemicals used for sanitation in the salon.

The student will be able to describe and implement safety precautions as prescribed by OSHA for the salon and spa.
8. The student will be able to describe and perform the universal precautions for handling blood spills.
9. The student will be able to identify and explain Material Safety Data Sheets.
10. The student will be able to report the safety precautions for the handling and disposal of hazardous chemicals commonly used in a salon or spa.

The student will be able to describe simple safety and first-aid applications for cuts, minor burns, choking, fainting and eye injury.
11. The student will be able to describe and demonstrate first aid procedure for first-degree burns, second-degree burns, and third-degree burns.
12. The student will be able to describe and demonstrate first aid procedure for chemical burns, heat burns and electrical burns.
13. The student will be able to describe and demonstrate first aid for choking – Heimlich Maneuver.
14. The student will be able to describe and demonstrate first aid for fainting.
15. The student will be able to describe and demonstrate first aid for eye injuries.

The student will be able to describe the anatomy of the hair and scalp.
16. The student will be able to identify the various types of hair found on the human body and define barba, lanugo, capilli, cilia, and supercilia.
17. The student will be able to identify the hair root, hair shaft, follicle, bulb, papilla, cuticle, cortex, and medulla.
18. The student will be able to describe and locate the arrector muscle, the sebaceous gland, and the sudoriferous gland.
19. The student will be able to explain the composition of the hair and define keratin protein, melanin and melanocytes.

The student will be able to explain the blood and nerve supply and their function as related to the hair and scalp.
20. The student will be able to describe the blood supply to the hair and scalp and identify the common carotid arteries, internal and external divisions of the carotid, the external maxillary artery, the submental, inferior labial, angular, superior labial, superficial temporal, frontal parietal, transverse, middle temporal, anterior auricular, supra-orbital, infra-orbital, occipital, and posterior auricular arteries and explain their functions.
21. The student will be able to describe the nerve supply to the hair and scalp and identify the fifth cranial nerve, supra-orbital, supra-trochlear, infra-trochlear, nasal, zygomatic, infraorbital, auriculotemporal, and mental nerves and explain their functions.

The student will be able to define the growth and regeneration of the hair and scalp.
22. The student will be able to describe the stages of the natural replacement of the hair.
23. The student will be able to explain the three phases of a normal hair cycle.
24. The student will be able to define anagen, catagen, and telogen.
25. The student will be able to identify growth patterns such as whorls and cowlicks.

The student will be able to analyze the form, length, texture, density and porosity of the hair.
26. The student will be able to define hair analysis.
27. The student will be able to recognize and differentiate the three forms of hair, straight, wavy, and curly.
28. The student will be able to identify and describe the three qualities of hair, texture, porosity, and elasticity.
29. The student will be able to define hair density.

The student will be able to identify conditions and disorders of the hair and scalp.

30. The student will be able to recognize and describe the various types of hair loss, and define androgenetic alopecia, alopecia areata, telogen effluvium, traction or traumatic alopecia, and postpartum alopecia.

31. The student will be able to define and implement the Savin Classification System.

32. The student will be able to describe and recommend cosmetic solutions and treatments for some types of hair loss.

33. The student will be able to explain the medical treatments available from a physician for hair loss.

34. The student will be able to recognize and describe various disorders of the hair, and define canities, congenital canities, acquired canities, ringed hair, hypertrichosis, trichoptilosis, trichorrhaxis nodosa, monilethrix, and fragilitas crinium.

35. The student will be able to identify the disorders and diseases of the scalp, and determine if the condition can be treated in the salon or if medical attention is required.

36. The student will be able to define dandruff, pityriasis, epithelial, pityriasis capitis simplex, pityriasis steatoides, tinea, tinea capitis, tinea favosa, scutula, scabies, pediculosis furuncle, carbuncle and staphylococci.

37. The student will be able to describe and recommend cosmetic solutions and treatments for the disorders of the scalp that do not require medical treatments.

38. The student will be able to identify, locate and explain the functions of the epidermis, dermis, stratum corneum, stratum lucidum, stratum granulosum, papillary layer, papillae, capillaries, tactile corpuscles, reticular layer, subcutaneous tissue, subcutis, and adipose tissue.

39. The student will be able to describe how the skin is nourished.

40. The student will be able to define motor nerve fibers, sensory nerve fibers, and secretory nerve fibers.

41. The student will be able to analyze the elasticity of the skin.

42. The student will be able to explain the aging process of the skin.

43. The student will be able to identify the fundus, sudoriferous glands, and sebaceous glands.

44. The student will be able to describe the functions of the skin, (protection, sensation, heat regulation, excretion, secretion, and absorption).

The student will be able to describe the anatomy of the skin.

45. The student will be able to define dermatology, dermatologist, pathology, trichology, etiology, diagnosis, and prognosis.

46. The student will be able to identify subjective symptoms and objective symptoms of skin disorders.

47. The student will be able to recognize and define macule, papule, wheal, tubercle, tumor, vesicle, bulla, pustule, cyst, scale, crust, excoriation, fissure, ulcer, scar, keloid, and stain.

48. The student will be able to explain what is meant by disease.

49. The student will be able to describe skin disease, acute disease, chronic disease, infectious disease, contagious disease, congenital disease, seasonal disease, occupational disease, parasitic disease, pathogenic disease, systemic disease, venereal disease, epidemic, allergy, and inflammation.

50. The student will be able to define comedones, milia, acne, seborrhea, asteatosis, rosacea, steatoma, bromidrosis, osmidrosis, anhidrosis, hyperhidrosis, miliaria rubra, dermatitis, eczema, psoriasis, herpessimplex, and dermatitis venenata.

51. The student will be able to differentiate normal and abnormal conditions of the skin.

52. The student will be able to describe tan, lentigines, stains, chloasma, naevus, leucoderma, vitiligo, and albinism.

53. The student will be able to identify keratoma, mole, melanotic sarcoma, and verruca.

54. The student will be able to define esthetician, rhytidectomy, blepharoplasty, chemical peeling,
The student will be able to explain the anatomy of the nail.

55. The student will be able to identify, locate and describe the function of the free edge, onychodermal band, nail plate, nail wall, lunula, eponychium, cuticle, nail matrix, nail root, mantle, nail bed, nail folds, perionychium, bed epithelium and hyponychium.

The student will be able to explain the growth and regeneration of the nail.

56. The student will be able to describe how the growth and regeneration of the nail is influenced by nutrition, general health, and disease.

57. The student will be able to explain normal growth rates and patterns of the natural nail.

The student will be able to describe irregularities, disorders, and diseases of the nail.

58. The student will be able to define onyx and onychology.

59. The student will be able to recognize, identify the cause and describe the safe and correct course of action for onychomycosis, paronychia, onychia, onychopotosis, onychomadesis, onychatrophia, onycholysis, blue nails, eggshell nails, corrugations, kolionychia, furrows, pterygium, onychogryposis, onychocryptosis, tile-shaped nails, pincer nails plicated nails, onychauxis, onychophyma, aqunails, bruised nails, onychophagy, onychorrhexis, leuconychia, and melanonychia.

60. The student will be able to recognize, define and describe the difference between bacterial infections and fungal infections of the nail.

61. The student will be able to differentiate which diseases and disorders can be treated in the salon and which diseases and disorders need to be referred to a physician.

ASSESSMENT OF LEARNER OUTCOMES:

Student progress is evaluated by means that include, but are not limited to, exams, written assignments, class participation and attendance.

SPECIAL NOTES:

This syllabus is subject to change at the discretion of the instructor. Material included is intended to provide an outline of the course and rules that the instructor will adhere to in evaluating the student’s progress. However, this syllabus is not intended to be a legal contract. Questions regarding the syllabus are welcome any time.

Kansas City Kansas Community College is committed to an appreciation of diversity with respect for the differences among the diverse groups comprising our students, faculty, and staff that is free of bigotry and discrimination. Kansas City Kansas Community College is committed to providing a multicultural education and environment that reflects and respects diversity and that seeks to increase understanding.

Kansas City Kansas Community College offers equal educational opportunity to all students as well as serving as an equal opportunity employer for all personnel. Various laws, including Title IX of the Educational Amendments of 1972, require the college’s policy on non-discrimination be administered without regard to race, color, age, sex, religion, national origin, physical handicap, or veteran status and that such policy be made known.

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