Course discipline/number/title: DA 1220: Chairside Assisting I

A. CATALOG DESCRIPTION
   1. Credits: 6
   2. Hours/Week: 2 lecture, 8 lab
   3. Prerequisites (Course discipline/number): None
   4. MnTC Goals (if any): NA

   Chairside Assisting I covers the following fundamental areas of four-handed dentistry: dental office layout and design, dental equipment, operatory preparation, patient and team positioning; maintenance of the operating field; dental instruments and supplies, instrument transfer; patient management; taking patient health histories and vital signs, the principles of operative dentistry; assisting for oral diagnosis, oral prophylaxis, amalgams and composites; and recognition and treatment of medical/dental emergencies.

   This course should be taken concurrently with Dental Infection Control, and is a prerequisite to Chairside Assisting II. (DA Program Admission is required.)

B. DATE LAST REVISED (Month, year): February, 2018

C. OUTLINE OF MAJOR CONTENT AREAS:
   1. Dental Office Design & Environment
   2. Dental Operatory Equipment and Preparation
   3. Positioning to Perform at Chairside
   4. Maintaining a Clear Field of Vision for Dental Treatment
   5. Dental Hand Instruments
   6. Instrument Transfer
   7. Dental Handpieces
   8. Rotary Instruments
   9. Miscellaneous Armamentarium
   10. Assisting with Local Anesthesia
   11. Assisting with Dental Matrices
   12. Patient Management for a Dental Procedure
   13. The Special Needs and Medically Compromised Patients
   14. Patient Health Histories
   15. Assisting for Oral Diagnosis
   16. Assisting for Oral Prophylaxis
   17. Operative Dentistry
   18. Assisting for an Amalgam Restoration
   19. Assisting for a Composite Restoration
   20. Taking Vital Signs
   21. Prevention, Recognition & Treatment of Medical & Dental Emergencies

D. LEARNING OUTCOMES (GENERAL): The student will be able to:
   1. Communicate effectively.
   2. Establish good working relationships.
   3. Demonstrate professional behavior.
   4. Employ ethical decision making.
   5. Demonstrate responsible work habits.
   6. Describe the functional design of a dental office.
   7. Describe operatory equipment design and function.
   8. Operate and maintain operatory equipment.
   12. Correctly prepare instrument tray set-ups.
D. LEARNING OUTCOMES (GENERAL): The student will be able to: Continued...
16. Describe tissue retraction techniques.
17. Demonstrate correct tissue retraction techniques.
18. Describe correct treatment isolation techniques.
19. Demonstrate correct treatment isolation techniques.
20. Assist for the placement and removal of rubber dam isolation.
21. Describe correct use of the air/water syringe.
22. Demonstrate correct use of the air/water syringe.
23. Describe correct oral evacuation techniques.
24. Demonstrate correct oral evacuation techniques.
25. Describe dental hand instrument characteristics, classifications, and uses.
26. Identify cavity preparation, restorative, prophylactic and miscellaneous hand instruments.
27. Perform instrument sharpening.
28. Describe operator hand instrument grasps, rests and guards.
29. Demonstrate effective operator grasps, rests and guards.
30. Describe the characteristics of effective instrument transfer.
31. Demonstrate efficient instrument transfer.
32. Describe dental handpiece design, function, and maintenance.
33. Demonstrate correct dental handpiece assembly and maintenance.
34. Describe rotary instruments and their uses.
35. Identify rotary instruments.
36. Describe expendable and non-expendable dental supplies and their use.
37. Identify expendable and non-expendable dental supplies.
38. Define terms associated with local anesthesia.
39. Describe local anesthesia techniques and armamentarium.
40. Correctly assemble and disassemble local anesthetic syringes.
41. Explain potential complications that may occur from local anesthesia.
42. Describe hazard management protocols associated with local anesthetics.
43. Describe the designs and uses of matrix retainers.
44. Correctly assemble matrix retainers.
45. Describe effective patient management techniques for dental procedures.
46. Demonstrate effective patient management.
47. Describe the unique needs of special care dental patients.
48. Describe dental treatment planning considerations for patients with special needs and medical disorders.
49. List and describe the steps of an oral diagnosis procedure.
50. Prepare oral diagnosis tray set-ups.
51. Describe the ASA classifications for medically compromised patients.
52. Identify medical conditions requiring pre-operative consideration, describe their characteristics, potential treatment modification/precautions and the required chart notation.
53. Accurately collect patient case histories.
54. Accurately review patient health histories and make appropriate chart notations.
55. Assist for oral diagnosis procedures.
56. Complete a soft tissue exam and note your findings.
57. List and describe the steps of an oral prophylaxis procedure.
58. Prepare oral prophylaxis tray set-ups.
59. Assist for an oral prophylaxis procedures.
60. Define operative dentistry terms.
61. Describe cavity classifications.
62. Describe cavity preparation techniques.
63. Define the various types of dental restorations and their uses.
64. List and describe all the steps for an amalgam restoration.
65. Prepare amalgam tray set-ups.
66. Assist for an amalgam procedure.
67. Give pre-operative and postoperative patient instructions for amalgam procedures.
D. LEARNING OUTCOMES (GENERAL): The student will be able to: Continued...
68. List and describe all the steps for a composite restoration.
69. Prepare composite tray set-ups.
70. Assist for a composite procedure.
71. Give pre-operative and post-operative patient instructions for composite procedures.
72. Prepare to manage medical emergencies.
73. Describe medical emergency supplies/drugs and their function.
74. Demonstrate the correct use of oxygen.
75. Assess patients for potential medical emergencies.
76. Take and accurately record patient vital signs.
77. Recognize signs and symptoms of medical emergencies.
78. Describe the recommended treatment for medical emergencies.
79. Simulate management of medical emergencies.

E. LEARNING OUTCOMES (MNCT): NA

F. METHODS FOR EVALUATION OF STUDENT LEARNING:
1. Weekly written quizzes.
2. Equipment/instrument/supply identification quizzes
3. Skill Evaluations
4. Participation.
5. Written assignments.
6. Final Written Exam
7. Final Equipment/instrument/supply identification exam

G. RCTC CORE OUTCOME(S) ADDRESSED:
- Communication
- Critical Thinking
- Personal/Professional Accountability
- Aesthetic Response

H. SPECIAL INFORMATION (if any): None