1. **COURSE ID:** DENT 740       **TITLE:** Chairside Assisting I  
   **Units:** 3.0 units  **Hours/Semester:** 32.0-36.0 Lecture hours; and 48.0-54.0 Lab hours  
   **Method of Grading:** Letter Grade Only  
   **Prerequisite:** Acceptance to the Dental Assisting Program

2. **COURSE DESIGNATION:**  
   **Degree Credit**  
   **Transfer credit:** none

3. **COURSE DESCRIPTIONS:**  
   **Catalog Description:**  
   This course provides the students with an introduction to chairside dental assisting procedures. Intended for full time students accepted into the Dental Assisting Program. (This course is offered in the Fall only.)

4. **STUDENT LEARNING OUTCOME(S) (SLO’S):**  
   Upon successful completion of this course, a student will meet the following outcomes:  
   1. Demonstrate ability to identify and assemble anesthetic materials and syringes.  
   2. List the steps in the 5 main dental procedures: Amalgam, Anterior Composite, Posterior Composite, Crown and Bridge, and Endo.  
   3. Demonstrate four handed dentistry techniques.  
   4. Identify and utilize procedure specific dental instrumentation in a clinical setting.  
   5. Identify and demonstrate performing disinfection techniques in treatment rooms and sterilization procedures for instrumentation.  
   6. Identify and treat patient medical emergencies in the dental office.  
   7. Perform a group dental public health presentation to the class and community.

5. **SPECIFIC INSTRUCTIONAL OBJECTIVES:**  
   Upon successful completion of this course, a student will be able to:  
   1. Demonstrate ability to identify and assemble anesthetic materials and syringes.  
   2. List the steps in the 5 main dental procedures: Amalgam, Anterior Composite, Posterior Composite, Crown and Bridge, and Endo.  
   3. Demonstrate four handed dentistry techniques.  
   4. Identify and utilize procedure specific dental instrumentation in a clinical setting.  
   5. Identify and demonstrate performing disinfection techniques in treatment rooms and sterilization procedures for instrumentation.  
   6. Identify and treat patient medical emergencies in the dental office.

6. **COURSE CONTENT:**  
   **Lecture Content:**  
   1. Four Handed Dentistry  
      A. Team members and dental office  
      B. Abbreviations in dentistry  
      C. Clock concept  
      D. Terminology  
      E. Tooth numbers/surfaces/quadrants  
      F. Instrument exchange  
      G. HVE placement and utilization  
      H. Saliva ejector and air/water syringe  
      I. DA position at the chair  
      J. Role of DA  
      K. Responsibilities  
   2. Dental Instrumentation  
      A. Rotary vs. Hand instruments  
      B. Dental handpieces and accessories a. Slow speed b. High speed
c. Dental burs
   i. Latch type
   ii. Friction grip
C. General instruments
D. Procedure instruments
E. Specialized instruments
F. Tray set-up for a procedure
G. Cassette system
H. Tub system
3. Dental Procedures
   A. Amalgam
      a. History
      b. Indications
      c. Popularity
      d. Expected life time of an amalgam
      e. Steps in procedure
      f. Armamentarium
   B. Composite
      a. Anterior and posterior restorations
      b. History
      c. Indications
      d. Popularity
      e. Expected lifetime of a composite
      f. Steps in procedure
      g. Armamentarium
      h. Filled vs. Unfilled resins
   C. Crown and Bridge
      a. History
      b. Indications
      c. Popularity vs. Necessity
      d. Expected lifetime of a crown or bridge
      e. Steps in procedure
      f. Armamentarium
   D. Endodontic Procedure
      a. History
      b. Indications
      c. Testing and diagnosis
      d. Signs and symptoms
      e. Steps in procedure
      f. Armamentarium
      g. Post and core
   E. Assist Dentist
      a. Anticipation
      b. Safety of the patient
      c. Exchanging of instruments
      d. Other responsibilities at the chair
   F. Disinfection and Sterilization
      a. Infection Control techniques
         i. Spray-wipe-spray
         ii. Disinfectant wipes
      b. OSHA regulations in dentistry
         i. Personal Protective Equipment (PPE)
         ii. Immunizations
         iii. Safety precautions
         iv. Chart documentation and storage
      c. Instrument sterilization
         i. Autoclave
         ii. Statim
         iii. Chemiclave
         iv. Dry heat
Spore testing
vi. Chemical testing
d. Prevention of cross-contamination

G. Anesthetic
a. Aspirating syringe
b. Carpule
c. Needles
d. Safe and proper set up
e. Precautions
f. Disinfection techniques
g. Epinephrine
h. General anesthetic
   i. Uses in dentistry
   i. Oral conscious sedation
   i. Uses in dentistry

H. Medical Emergencies
a. Importance of health history
b. Prevention and anticipation
c. Signs and symptoms
d. Current CPR certification
e. Management of an emergency

Lab Content:
1. Four Handed Dentistry
   A. Clock concept
   B. Instrument exchange
   C. HVE placement and utilization
   D. Saliva ejector and air/water syringe
   E. DA position at the chair
   F. Responsibilities
2. Dental Instrumentation
   A. Rotary vs. hand instruments
   B. Dental handpieces and accessories
      a) Slow speed
      b) High speed
      c) Dental burs
         i. Latch type
         ii. Friction grip
   C. General instruments
   D. Procedure instruments
   E. Specialized instruments
   F. Tray set-up for a procedure
   G. Cassette system
   H. Tub system
3. Dental Procedures
   A. Amalgam
      a) Steps in procedure
      b) Armamentarium
   B. Composite
      a) Anterior and posterior restorations
      b) Steps in procedure
      c) Armamentarium
   C. Crown and Bridge
      a) Steps in procedure
      b) Armamentarium
   D. Endodontic Procedure
      a) Steps in procedure
      b) Armamentarium
      c) Post and core
E. Assisting Dentist
   a) Anticipation
   b) Safety of the patient
   c) Exchanging of instruments
   d) Other responsibilities at the chair
   e) Disinfection and Sterilization

F. Infection Control Technique
   a) Spray-wipe-spray
   b) Disinfectant wipes

4. OSHA Regulations in Dentistry
   A. Personal Protective Equipment (PPE)
      a) Safety precautions
      b) Chart documentation and storage
   B. Instrument Sterilization
      a) Autoclave
      b) Statim
      c) Chemiclave
      d) Dry heat
      e) Spore testing
      f) Chemical testing
      g) Prevention of cross-contamination
   C. Anesthetic
      a) Aspirating syringe
      b) Carpule
      c) Needles
      d) Safe and proper set up
      e) Precautions
   D. Sterilizer Monitoring
      a) Spore testing
      b) Chemical testing

5. Anesthetic
   A. Aspirating syringe
   B. Carpule
   C. Needles
   D. Safe and proper set up
   E. Precautions
   F. Disinfection techniques

7. REPRESENTATIVE METHODS OF INSTRUCTION:
   Typical methods of instruction may include:
   A. Lecture
   B. Lab
   C. Other (Specify): power point presentations, videos, group discussion, demonstrations in lab.

8. REPRESENTATIVE ASSIGNMENTS
   Representative assignments in this course may include, but are not limited to the following:
   Writing Assignments:
   Workbook assignments and worksheets are assigned that relate to the topic being discussed.
   Reading Assignments:
   Students will be assigned chapter readings from the textbook which correlate with the subject being discussed.

9. REPRESENTATIVE METHODS OF EVALUATION
   Representative methods of evaluation may include:
   A. Class Participation
   B. Exams/Tests
   C. Lab Activities
   D. Quizzes
   E. Clinical competencies on lab skills, performance on worksheets and workbook assignments, participation in lecture and lab discussions, weekly review quizzes, and a final examination.
10. REPRESENTATIVE TEXT(S):
Possible textbooks include:

**Origination Date:** October 2015  
**Curriculum Committee Approval Date:** January 2016  
**Effective Term:** Fall 2016  
**Course Originator:** Beth LaRochelle