Course Description

DEH 1840L | Advanced Radiographic & Clinical Assessment Techniques | 1 credit

This course is a laboratory course introducing advanced digital radiographic techniques, the intraoral camera, periodontal probing and dental charting software and other clinical assessment tools. These skills will enhance the student's ability to interpret intraoral conditions that will enable them to provide comprehensive patient treatment. This course introduces the fundamentals of advanced radiographic and clinical assessment tools to the student. Through the introduction of these advanced tools the student will be prepared to utilize new dental technologies in the workplace.

Course Competencies

Competency 1:

The student will demonstrate the knowledge, comprehension and application of using the ultrasonics by:

a) Explaining the purpose for utilizing the magnetostrictive and piezoelectric ultrasonic.
b) Properly assembling both ultrasonic units per manufacturer directions.
c) Properly preparing patient for procedure.
d) Properly ultrasonic a patient using both units.

Learning Outcomes

- *Learning outcome 1* Communication
- *Learning outcome 2* Numbers / Data
- *Learning outcome 1* Critical Thinking
- *Learning outcome 2* Information Literacy
- *Learning outcome 1* Environmental Responsibility
- *Learning outcome 2* Computer / Technology Usage
- *Learning outcome 1* Aesthetic / Creative Activities
- *Learning outcome 1* Ethical issues
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Competency 2:

The student will demonstrate the knowledge, comprehension and application of a digital imaging system using the Schick CDR unit to provide a radiographic series by:

a) Identifying the components of the Schick CDR radiographic unit.
b) Demonstrating the proper infection control protocol for digital radiography.
c) Demonstrating the proper placement of the barrier sensor using the Rinn XCP equipment.
d) Operating the x-ray control panel using the appropriate exposure.

Learning Outcomes

- *Learning outcome 1* Communication
- *Learning outcome 2* Numbers / Data
- *Learning outcome 1* Critical Thinking
- *Learning outcome 2* Information Literacy
- *Learning outcome 1* Environmental Responsibility
- *Learning outcome 2* Computer / Technology Usage
- *Learning outcome 1* Aesthetic / Creative Activities
- *Learning outcome 1* Ethical issues
- …

Competency 3:

The student will demonstrate the knowledge, comprehension, and application of obtaining a photographic record of the patient's oral health condition using a digital camera by:

a) Explaining the purpose of using a digital camera.
b) Demonstrating the proper infection control protocol for use of a digital camera.
c) Locating and describing the purpose of the components of a digital camera.
d) Identifying the various oral views.
e) Describing the patient, retractor, mirror and camera lens position for each view.

Learning Outcomes

- *Learning outcome 1* Communication
- *Learning outcome 2* Numbers / Data
- *Learning outcome 1* Critical Thinking
- *Learning outcome 2* Information Literacy
- *Learning outcome 1* Environmental Responsibility
- *Learning outcome 2* Computer / Technology Usage
- *Learning outcome 1* Aesthetic / Creative Activities
- *Learning outcome 1* Ethical issues
- …

Competency 4:

The student will demonstrate the knowledge, comprehension and application of documenting periodontal and dental charting data electronically using the EagleSoft periodontal and dental charting software application by:

a) Explaining the purpose of the EagleSoft Charting software application.
b) Accessing the application from the Windows desktop.
c) Accessing the periodontal and restorative data for adult and pediatric patients.
d) Entering periodontal and restorative data for a patient.
e) Switching between the charting and periodontal modes.

Learning Outcomes

- *Learning outcome 1* Communication
- *Learning outcome 2* Numbers / Data

- *Learning outcome 1* Critical Thinking
- *Learning outcome 2* Information Literacy
- *Learning outcome 1* Environmental Responsibility
- *Learning outcome 2* Computer / Technology Usage
- *Learning outcome 1* Aesthetic / Creative Activities
- *Learning outcome 1* Ethical issues
- …