

## **Course Description**

### **DEH1840L | Advanced Radiographic & Clinical Assessment Techniques | 1.00 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 ultrasonic by:

1. Explaining the purpose for utilizing the magnetostrictive and piezoelectric ultrasonic
2. Properly assemble both ultrasonic units per the manufacturer's directions
3. Properly preparing the patient for the procedure
4. Properly utilizing ultrasonic on a patient using both units

**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:

1. Identifying the components of the Schick CDR radiographic unit
2. Displaying the proper infection control protocol for digital radiography
3. Showing the proper placement of the barrier sensor using the Rinn XCP equipment
4. Operating the X-ray control panel using the appropriate exposure

**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:

1. Explaining the purpose of using a digital camera
2. Displaying the proper infection control protocol for the use of a digital camera
3. Locating and describing the purpose of the components of a digital camera
4. Identifying the various oral views
5. Describing the patient, retractor, mirror, and camera lens position for each view

**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:

1. Explaining the purpose of the EagleSoft Charting software application
2. Accessing the application from the Windows desktop
3. Accessing periodontal and restorative data for adult and pediatric patients
4. Entering periodontal and restorative data for a patient
5. Switching between the charting and periodontal modes

## **Learning Outcomes**

- Communicate effectively using listening, speaking, reading, and writing skills
- Solve problems using critical and creative thinking and scientific reasoning
- Use computer and emerging technologies effectively