



UNIVERSITY OF ARKANSAS  
**PULASKI TECH**

**Course-Level Assessment Report**  
**Course: DEN 1303 Clinical Science I**  
**Academic Year: 2020-2021**

**Due to Chair/Program Director and Faculty Assessment Chair by  
September 4**



1. Name of course: DEN 1303 Clinical Science I
2. Name of individual(s) compiling report: Weeda Jones
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4. Academic year: 2020-2021

## Course-Level Learning Outcomes

### 1. What are the Course-Level Outcomes (CLOs)?

DEN 1303 Clinical Science I has three classes within the course. They include Orientation to Dentistry, Medical and Dental Emergencies and Legal and Ethical. Below are the CLO's for each class.

#### Orientation to Dentistry CLO's

1. Discuss and identify early pioneers of dentistry and their contribution to the profession.
2. Identify the eight dental specialty practices.
3. Identify educational requirements, licensure, role, and legal and ethical requirements of each member of the dental health team.
4. Match the professional organization for each member of the dental health team.
5. Identify agencies responsible for accrediting dental assisting programs, certifying dental assistants, qualifications necessary to sit for the certification examination, and ways to remain currently certified.
6. Recognize potential expanded functions for dental assistants.

#### Emergencies CLO's

1. Identify from a list, medications and supplies that should be kept in the emergency kit, specific duties of each dental team member during an emergency, and the need for practice sessions on a regular basis.
2. Identify the need for updated health histories, base line records for vital signs, and close observation of all patients during dental treatments.
3. Demonstrate the ability to administer oxygen from a reserve tank supply and an AmBu bag.
4. Describe three ways that room air may be administered to patients.

5. Identify signs and symptoms of emergency conditions that may occur in the dental office, drugs to be used in specific emergencies, and the route of administration of the drug.
6. Match terms and definitions to identify specific emergencies.
7. Prepare a disposable syringe and deliver medication during an emergency situation.
8. Identify steps to be taken in treating a needle stick.

#### Legal and Ethical CLO's

1. Identify and use terms included in the glossary of the basic text.
2. Discriminate between ethics, jurisprudence, and risk management and how they affect the standards of behavior for the dental auxiliary.
3. Discriminate between the criteria for ethical or unethical decisions.
4. Differentiate between admission against interest and res gestae, also a deposition and testimony.
5. Identify the functions and provision of a State Dental Practice Act and how duties of dental auxiliaries are governed.

### 1. Which CLOs were addressed for the academic year?

1. Identify from a list, medications and supplies that should be kept in the emergency kit, specific duties of each dental team member during an emergency, and the need for practice sessions on a regular basis.
2. Identify the need for updated health histories, base line records for vital signs, and close observation of all patients during dental treatments.
3. Prepare a disposable syringe and deliver medication during an emergency situation.

### 2. Which CLOs are being addressed in your assessment plan in the upcoming academic year?

1. Prepare a disposable syringe and deliver medication during an emergency situation.
2. Discriminate between certification and registration of dental assistants.
3. Discriminate between criteria for ethical and unethical decisions

### 3. Explain the assessment cycle.

Didactic exams are performed with paper and pencil or via technology. Completion of chapter questions are assigned to reinforce the lesson for the day. A lab where students draw up medication is also utilized for practice preparing emergency drugs.

### 4. What are the assessment methods? Are they direct or indirect?

Assessment methods are direct and consist of written exam, chapter questions and lab practice.

### 5. What are the assessment goal(s), including benchmarks?

The assessment goal is for students to achieve a 70% for each of the course learning outcomes. This level will assure students have gained the knowledge to perform in a dental setting.

### 6. What were the findings for the academic year?

Exam #1 was completed with the following pass rate for the questions related to the CLO's.

CLO	2	3	4	5	17	20	23
1. Identify from a list, medications and supplies that should be kept in the emergency kit, specific duties of each dental team member during an emergency, and the need for practice sessions on a regular basis.	50%			29%	79%		
2. Identify the need for updated health histories, base line records for vital signs, and close observation of all patients during dental treatments.		78%	86%			71%	50%

When preparing to assess CLO #3, it was realized that because the evidence is a lab assignment where students get multiple attempts to master the skill, it is difficult to assess without knowing the number of attempts the students made without success.

The following were the findings:

CLO	Lab Assignment Score
3. Prepare a disposable syringe and deliver medication during an emergency situation. (students were given unlimited attempts)	100%

\*The percentages are an average of all student grades.

## 7. What is your analysis of the findings?

As suspected, students struggled with the technical information in the emergencies class. Students do not fully understand the contents of an emergency kit and the role each team member plays in the management of an emergency. Student may benefit from additional class time and assignments covering emergency drugs and their use. Reinforcing the use of the drug may help them retain information during an emergency.

## 9. What is the action plan for the upcoming academic year? Explain.

During the next year, we will be look at CLO #3 from 20-21 this year and assess it differently with the number of attempts to correct prepare medication for emergency use. Two new CLO's from the legal and ethical class will be assessed to determine if students are meeting the goals for this class. The new CLO's are:

1. Prepare a disposable syringe and deliver medication during an emergency situation.
2. Discriminate between certification and registration of dental assistants.
3. Discriminate between criteria for ethical and unethical decisions.

The dental assisting program has an accrediting body, The American Dental Association Commission on Dental Accreditation (CODA). Standards are put forth and followed. The dental community, dental assisting students, graduates and advisory committee's input is considered when deciding on assessment needs.