



COURSE OUTLINE

DIVISION: Workforce Development

COURSE: DLA 1229 Medical Emergencies in the Dental Office

Date: Fall 2020

Credit Hours: 1

Prerequisite(s): DLA 1209

Delivery Method:

<input checked="" type="checkbox"/> Lecture	1 Contact Hours (1 contact = 1 credit hour)
<input type="checkbox"/> Seminar	0 Contact Hours (1 contact = 1 credit hour)
<input type="checkbox"/> Lab	0 Contact Hours (2-3 contact = 1 credit hour)
<input type="checkbox"/> Clinical	0 Contact Hours (3 contact = 1 credit hour)
<input checked="" type="checkbox"/> Online	
<input type="checkbox"/> Blended	

Offered: Fall Spring Summer

IAI Equivalent –**Only for Transfer Courses**-go to <http://www.itransfer.org>.

CATALOG DESCRIPTION:

This course is designed to provide dental auxiliary (dental assistant/hygiene) students with the basic skills and knowledge necessary in order to function effectively as a member of the dental team. This course is also an effective refresher tool for dental auxiliaries who are already working in dentistry.

GENERAL EDUCATION GOALS ADDRESSED

[See last page for Course Competency/Assessment Methods Matrix.]

Upon completion of the course, the student will be able:

[Choose up to three goals that will be formally assessed in this course.]

- To apply analytical and problem solving skills to personal, social, and professional issues and situations.
- To communicate successfully, both orally and in writing, to a variety of audiences.
- To construct a critical awareness of and appreciation for diversity.
- To understand and use technology effectively and to understand its impact on the individual and society.
- To develop interpersonal capacity.
- To recognize what it means to act ethically and responsibly as an individual and as a member of society.
- To recognize what it means to develop and maintain a healthy lifestyle in terms of mind, body, and spirit.
- To connect learning to life.

EXPECTED LEARNING OUTCOMES AND RELATED COMPETENCIES:

[Outcomes related to course specific goals. See last page for more information.]

Upon completion of the course, the student will be able to:

1. Demonstrate a basic understanding of the prevention and preparedness for medical emergencies.
 - 1.1. Office Preparation
 - 1.2. Medical History
 - 1.3. Vital Signs
2. Demonstrate a basic understanding of how to recognize and treat altered consciousness emergencies.
 - 2.1. Syncope
 - 2.2. Seizure disorders
 - 2.3. Diabetes mellitus
 - 2.4. Cerebrovascular Accident (CVA)
3. Demonstrate a basic understanding of how to recognize and treat respiratory distress.
 - 3.1. Asthma
 - 3.2. Hyperventilation
 - 3.3. Airway Obstruction
4. Demonstrate a basic understanding of how to recognize and treat cardiovascular emergencies.
 - 4.1. Angina Pectoris
 - 4.2. Myocardial Infarction
 - 4.3. Cardiopulmonary Resuscitation (CPR)
5. Demonstrate a basic understanding of how to recognize and treat Immune System Emergencies.
 - 5.1. Allergic reactions
6. Demonstrate a basic understanding of Legal Issues in Emergency Care.
 - 6.1. Occupational Hazards
 - 6.2. Legal Problems of Emergency Care

MAPPING LEARNING OUTCOMES TO GENERAL EDUCATION GOALS

[For each of the goals selected above, indicate which outcomes align with the goal.]

Goals	Outcomes
First Goal	
To recognize what it means to develop and maintain a healthy lifestyle in terms of mind, body, and spirit.	All content in this course satisfies this goal.

COURSE TOPICS AND CONTENT REQUIREMENTS:

- I. Demonstrate a basic understating of the prevention and preparedness for medical emergencies.
 - a. Office Preparation
 - i. Office emergency routine
 - ii. Emergency kit
 - iii. Oxygen tank
 - b. Medical History
 - i. Medical history format
 - ii. Assessment of the dental patient
 - iii. Using drug reference manuals
 - c. Vital Signs
 - i. Blood pressure
 - ii. Recording the pulse
 - iii. Respiration
 - iv. Temperature
- II. Demonstrate a basic understanding of how to recognize and treat altered consciousness emergencies.
 - a. Syncope
 - i. Causes
 - ii. Physical changes resulting in syncope
 - iii. Signs and symptoms
 - iv. Treatment
 - v. Prevention
 - b. Seizure disorders
 - i. Causes
 - ii. Types of seizures
 - iii. Treatment
 - iv. Dental implications of seizure disorders
 - v. Prevention
 - c. Diabetes mellitus
 - i. History
 - ii. Functions of glucose and insulin
 - iii. Causes
 - iv. Oral hypoglycemic
 - v. Diabetic emergencies

- 1. Hyperglycemia
 - 2. Hypoglycemia
 - vi. Medical problems
 - vii. Oral manifestations
 - d. Cerebrovascular Accident (CVA)
 - i. Classifications
 - ii. Cerebral embolism
 - iii. Cerebral hemorrhage
 - iv. Cerebral infarction
 - v. Cerebral thrombosis
 - vi. Transient ischemic attack
 - vii. Signs and symptoms
 - viii. Treatment
- III. Demonstrate a basic understanding of how to recognize and treat respiratory distress.
 - a. Asthma
 - i. Types
 - ii. Causes
 - iii. Symptoms
 - iv. Treatment
 - b. Hyperventilation
 - i. Causes
 - ii. Signs and symptoms
 - iii. Treatment
 - c. Airway Obstruction
 - i. Dental hazards
 - ii. Anatomy of the airway
 - iii. Types of airway obstructions
 - iv. The Heimlich maneuver
 - v. Heimlich maneuver on infants and children
 - vi. Patients with special requirements
 - vii. Cricothyrotomy
 - viii. Performing the Heimlich on yourself
- IV. Demonstrate a basic understanding of how to recognize and treat cardiovascular emergencies.
 - a. Angina Pectoris
 - i. Anatomy of the heart
 - ii. Coronary artery disease
 - b. Myocardial Infarction
 - i. Anatomy of the heart
 - ii. Coronary artery disease
 - c. Cardiopulmonary Resuscitation (CPR)
 - i. Cardiac arrest
 - ii. CPR technique
 - iii. External compression
 - iv. Opening the airway
 - v. Starting and stopping CPR
 - vi. Two-person CPR
 - vii. CPR for infants and children

- viii. Dangers of CPR
- V. Demonstrate a basic understanding of how to recognize and treat Immune System Emergencies.
 - a. Antibodies
 - b. Antigens
 - c. Allergic reactions
 - i. types
 - d. Importance to the medical history
 - e. Anaphylactic reaction
 - f. Epinephrine
 - g. Allergy to anesthesia
 - h. Latex allergies
- VI. Demonstrate a basic understanding of Legal Issues in Emergency Care.
 - a. Occupational Hazards
 - i. Hazards to office personnel
 - ii. Patient dental emergencies
 - b. Legal Problems of Emergency Care
 - i. Duties and responsibilities
 - ii. Good Samaritan Law
 - iii. Preventing Legal Problems

INSTRUCTIONAL METHODS:

Lecture
 Role-play
 Case Studies
 Modeling
 Feedback
 Cooperative Learning
 Experiential Learning
 Student-Led Classroom
 Class Discussion
 Inquiry-Guided Instruction

INSTRUCTIONAL MATERIALS:

Emergency Guide for Dental Auxiliaries by Debra Jennings; Janet Chernega
 Publisher: Cengage Learning
 Print ISBN: 9781285394664, 1285394666
 eText ISBN: 9781285394664, 1285394666
 Edition: 4th
 Copyright year: 2013 (will update when new edition becomes available)

STUDENT REQUIREMENTS AND METHODS OF EVALUATION:

A= 90-100
 B= 80-89
 C= 70-79
 D= 60-69
 F= 0-59

Course Competency/Assessment Methods Matrix

(Dept/# Course Name)	Assessment Options																																		
For each competency/outcome place an "X" below the method of assessment to be used.	Assessment of Student Learning	Article Review	Case Studies	Group Projects	Lab Work	Oral Presentations	Pre-Post Tests	Quizzes	Written Exams	Artifact Self Reflection of Growth	Capstone Projects	Comprehensive Written Exit Exam	Course Embedded Questions	Multi-Media Projects	Observation	Writing Samples	Portfolio Evaluation	Real World Projects	Reflective Journals	Applied Application (skills) Test	Oral Exit Interviews	Accreditation Reviews/Reports	Advisory Council Feedback	Employer Surveys	Graduate Surveys	Internship/Practicum /Site Supervisor Evaluation	Licensing Exam	In Class Feedback	Simulation	Interview	Written Report	Assignment			
	Direct/ Indirect	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	I	I	I	I	D	D									
Demonstrate a basic understating of the prevention and preparedness for medical emergencies.		X	X	X		X		X	X			X			X			X		X							X	X	X	X					X
Demonstrate a basic understanding of how to recognize and treat an unconscious patient.		X	X	X		X		X	X			X			X			X		X							X	X	X	X					X
Demonstrate a basic understanding of how to recognize and treat respiratory distress.		X	X	X		X		X	X			X			X			X		X							X	X	X	X					X
Demonstrate a basic understanding of how to recognize and treat altered consciousness.		X	X	X		X		X	X			X			X			X		X							X	X	X	X					X
Demonstrate a basic understanding of how to recognize and treat seizures.		X	X	X		X		X	X			X			X			X		X							X	X	X	X					X

Demonstrate a basic understanding of how to recognize and treat drug-related emergencies.		X	X	X		X		X	X			X		X		X	X						X	X	X	X				X
Demonstrate a basic understanding of how to recognize and treat chest pain.		X	X	X		X		X	X			X		X		X	X						X	X	X	X				X
Demonstrate a basic understanding of how to recognize and treat cardiac arrest.		X	X	X		X		X	X			X		X		X	X						X	X	X	X				X
Pediatric Considerations.		X	X	X		X		X	X			X		X		X	X						X	X	X	X				X