Date: Fall 2020

Credit Hours: 1

Prerequisite(s): DLA 1209

Delivery Method: 
- Lecture 1 Contact Hours (1 contact = 1 credit hour)
- Seminar 0 Contact Hours (1 contact = 1 credit hour)
- Lab 0 Contact Hours (2-3 contact = 1 credit hour)
- Clinical 0 Contact Hours (3 contact = 1 credit hour)
- Online
- Blended

Offered: Fall

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.]

<table>
<thead>
<tr>
<th>Goals</th>
<th>Outcomes</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Goal</td>
<td>All content in this course satisfies this goal.</td>
</tr>
<tr>
<td>To recognize what it means to develop and maintain a healthy lifestyle in terms of mind, body, and spirit.</td>
<td></td>
</tr>
</tbody>
</table>

COURSE TOPICS AND CONTENT REQUIREMENTS:
I. Demonstrate a basic understanding 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

For each competency(outcome) place an “X” below the method of assessment to be used.

<table>
<thead>
<tr>
<th>Assessment of Student Learning</th>
<th>Assessment Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>Article Review</td>
<td></td>
</tr>
<tr>
<td>Case Studies</td>
<td></td>
</tr>
<tr>
<td>Group Projects</td>
<td></td>
</tr>
<tr>
<td>Lab Work</td>
<td></td>
</tr>
<tr>
<td>Oral Presentations</td>
<td></td>
</tr>
<tr>
<td>Pre-Post Tests</td>
<td></td>
</tr>
<tr>
<td>Quizzes</td>
<td></td>
</tr>
<tr>
<td>Written Exams</td>
<td></td>
</tr>
<tr>
<td>Artifact Self Reflection of Growth</td>
<td></td>
</tr>
<tr>
<td>Capstone Projects</td>
<td></td>
</tr>
<tr>
<td>Comprehensive Written Exit Exam</td>
<td></td>
</tr>
<tr>
<td>Course Embedded Questions</td>
<td></td>
</tr>
<tr>
<td>Observation</td>
<td></td>
</tr>
<tr>
<td>Writing Samples</td>
<td></td>
</tr>
<tr>
<td>Portfolio Evaluation</td>
<td></td>
</tr>
<tr>
<td>Real World Projects</td>
<td></td>
</tr>
<tr>
<td>Reflective Journals</td>
<td></td>
</tr>
<tr>
<td>Applied Application (skills) Test</td>
<td></td>
</tr>
<tr>
<td>Oral Exit Interviews</td>
<td></td>
</tr>
<tr>
<td>Accreditation Reviews/Reports</td>
<td></td>
</tr>
<tr>
<td>Advisory Council Feedback</td>
<td></td>
</tr>
<tr>
<td>Employer Surveys</td>
<td></td>
</tr>
<tr>
<td>Graduate Surveys</td>
<td></td>
</tr>
<tr>
<td>Internship/Practicum / Site Supervisor Evaluation</td>
<td></td>
</tr>
<tr>
<td>Licensing Exam</td>
<td></td>
</tr>
<tr>
<td>In Class Feedback</td>
<td></td>
</tr>
<tr>
<td>Simulation</td>
<td></td>
</tr>
<tr>
<td>Interview</td>
<td></td>
</tr>
<tr>
<td>Written Report</td>
<td></td>
</tr>
</tbody>
</table>

### Assessment Measures – Are direct or indirect as indicated. List competencies/outcomes below.

<table>
<thead>
<tr>
<th>Direct/Indirect</th>
<th>Demonstrate a basic understanding of the prevention and preparedness for medical emergencies.</th>
<th>X X X X X X X X X X X X</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Demonstrate a basic understanding of how to recognize and treat an unconscious patient.</td>
<td>X X X X X X X X X</td>
</tr>
<tr>
<td></td>
<td>Demonstrate a basic understanding of how to recognize and treat respiratory distress.</td>
<td>X X X X X X X X X</td>
</tr>
<tr>
<td></td>
<td>Demonstrate a basic understanding of how to recognize and treat altered consciousness.</td>
<td>X X X X X X X X X</td>
</tr>
<tr>
<td></td>
<td>Demonstrate a basic understanding of how to recognize and treat seizures.</td>
<td>X X X X X X X X</td>
</tr>
</tbody>
</table>

Curriculum Committee – Course Outline Form Revised 12/5/2016
| 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 |
| Demonstrate a basic understanding of how to recognize and treat chest pain. | 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 |
| Pediatric Considerations. | X | X | X | X | X | X | X | X | X | X | X | X |

Curriculum Committee – Course Outline Form Revised 12/5/2016  Page 7 of 7